

CATALOGUE N⁷ NUMBER SEVEN

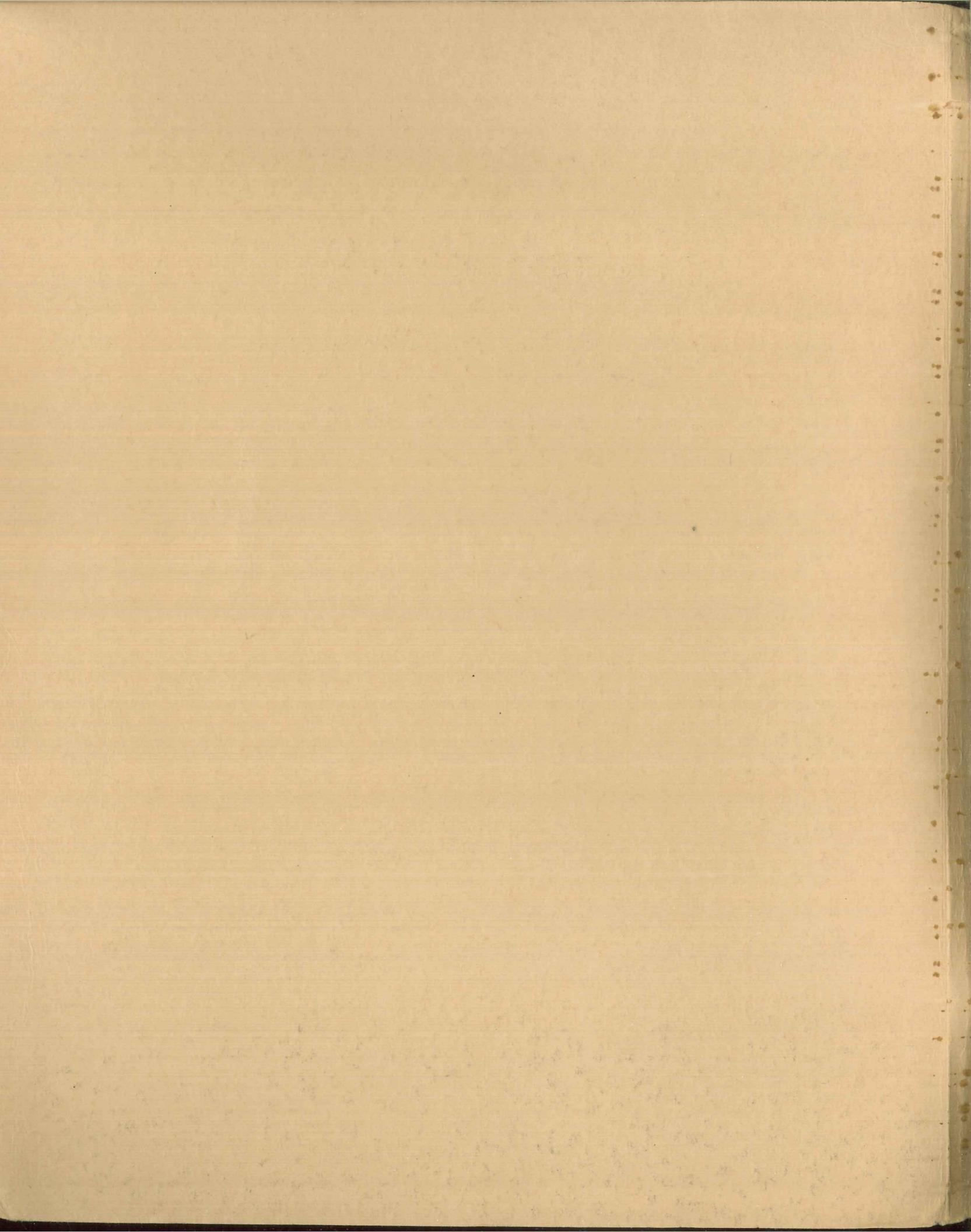
JULIUS BLUM

AND COMPANY, INC.

STOCK ELEMENTS FOR THE
FABRICATION AND ASSEMBLY
OF ORNAMENTAL METAL WORK

OFFICE AND WAREHOUSE: CARLSTADT, N. J. • GENEVA 8-4600

New York Phone OXFORD 5-2236 • Philadelphia Phone MARKET 7-7596



CATALOG No. 7

(ISSUE 1955)

JULIUS BLUM

AND COMPANY, INC.
CARLSTADT, NEW JERSEY

Just East of Highway 17—8 Miles from Manhattan via Lincoln Tunnel

New Jersey phone GENEVA 8-4600 • New York phone OXFORD 5-2236

Philadelphia phone MARKET 7-7596

General Information

Our line of stock elements has been built up over a period of 45 years with the purpose of making available to the architect and metal fabricator materials which will facilitate the design and fabrication of artistic work at commercial prices.

Every item described in this catalog is carried in stock in substantial quantities and shipment is usually made within 24 hours

after receipt of the order at our office.

We are adding new materials to our stock constantly and solicit inquiries for articles not shown in our catalog.

All weights and dimensions shown are approximate. They have been ascertained with care, but cannot be guaranteed.

ESTABLISHED 1910



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JULIUS BLUM & CO., INC. • CARLSTADT, N. J.

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JULIUS BLUM & CO., INC. • CARLSTADT, N. J.
 New Jersey Phone: GEneva 8-4600 • New York Phone: OXFord 5-2236 • Philadelphia Phone: MARket 7-7596

TUBING, SHAPES, BARS

BARS, Shapes and Tubing in this section are carried in stock in long random lengths. They can also be furnished cut to specified lengths.

The range of sizes in the following pages represents our complete stock list as this catalog goes to press. However, we are adding new sizes to our stock constantly and will issue revised stock lists of tubing, shapes and bars from time to time. Please write for current stock list.

Every item listed in this section is carried in stock in substantial quantities. Shipment usually can be made immediately upon receipt of order.

All bronze items are of matching color. All aluminum extrusions are alloy 6063 (63-S). This alloy is recommended for architectural work because of its bright color, ease of fabrication and corrosion resistance. It is suitable for alumiliting.

Since all our bronze and aluminum sections are of uniform composition, the chance of accidental mis-matching of alloys or colors through shipping errors is eliminated.

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For Information on Plastic Rods and Tubing, write for special catalog: "Plastics"

SQUARE and RECTANGULAR STEEL TUBING

Elements of Sections

SQUARE TUBING

O.D. INCHES	THICKNESS BWG AND DEC. IN.	AREA SQ. IN.	MOM. OF INERTIA	SECTION MODULUS	RADIUS OF GYRATION
3/8	18 (.049)	.064	.001	.006	.135
1/2	20 (.035)	.065	.002	.009	.190
1/2	18 (.049)	.088	.003	.012	.185
1/2	16 (.065)	.113	.004	.015	.180
5/8	20 (.035)	.083	.005	.015	.241
5/8	18 (.049)	.113	.006	.020	.236
5/8	16 (.065)	.146	.008	.025	.230
3/4	20 (.035)	.100	.009	.023	.292
3/4	16 (.065)	.178	.014	.038	.281
7/8	20 (.035)	.118	.014	.032	.343
7/8	16 (.065)	.211	.023	.053	.332
1	20 (.035)	.135	.021	.042	.394
1	18 (.049)	.186	.028	.056	.389
1	16 (.065)	.243	.036	.071	.383
1	14 (.083)	.304	.043	.086	.376
1	11 (.120)	.422	.056	.111	.363
1 1/8	16 (.065)	.276	.052	.092	.434
1 1/4	20 (.035)	.170	.042	.067	.496
1 1/4	18 (.049)	.235	.057	.091	.491
1 1/4	16 (.065)	.308	.072	.116	.485
1 1/4	14 (.083)	.387	.088	.141	.478
1 1/4	11 (.120)	.542	.117	.187	.464
1 1/4	10 (.135)	.602	.127	.203	.459
1 1/4	7 (.188)	.799	.155	.248	.440
1 1/2	20 (.035)	.205	.073	.098	.598
1 1/2	18 (.049)	.284	.100	.133	.592
1 1/2	16 (.065)	.373	.128	.171	.586
1 1/2	14 (.083)	.470	.158	.211	.580
1 1/2	11 (.120)	.662	.212	.282	.565
1 1/2	.140)	.762	.237	.316	.558
1 1/2	7 (.188)	.987	.289	.385	.541
1 3/4	16 (.065)	.438	.208	.237	.688
1 3/4	14 (.083)	.553	.257	.294	.682
2	16 (.065)	.503	.314	.314	.790
2	14 (.083)	.636	.391	.391	.783
2	11 (.120)	.902	.534	.534	.769
2	9 (.145)	1.076	.621	.621	.760
2	7 (.188)	1.363	.754	.754	.744
2	4 (.250)	1.750	.912	.912	.722
2 1/2	16 (.065)	.633	.626	.501	.995
2 1/2	14 (.083)	.802	.782	.626	.987
2 1/2	11 (.120)	1.142	1.081	.865	.973
2 1/2	7 (.188)	1.739	1.559	1.247	.947
2 1/2	4 (.250)	2.250	1.922	1.538	.924
3	16 (.065)	.763	1.096	.731	1.199
3	14 (.083)	.968	1.374	.916	1.191
3	11 (.120)	1.382	1.914	1.274	1.177
3	7 (.188)	2.109	2.793	1.862	1.151
3	4 (.250)	2.750	3.495	2.330	1.127
3 1/2	11 (.120)	1.622	3.093	1.767	1.381
3 1/2	7 (.188)	2.484	4.558	2.605	1.355
4	10 (.134)	2.072	5.168	2.584	1.579
4	7 (.188)	2.859	6.944	3.472	1.558
4	4 (.250)	3.750	8.828	4.414	1.534

RECTANGULAR TUBING

O.D. INCHES	THICKNESS BWG AND DEC. IN.	AREA SQ. IN.	MOM. OF INERTIA	MAJOR AXIS	MINOR AXIS
				SECTION MODULUS	RADIUS OF GYRATION
3/8 x 3/4	16 (.065)	.129	.002	.013	.139
3/4 x 1	16 (.065)	.162	.003	.018	.143
1/2 x 1 1/4	16 (.065)	.211	.008	.033	.198
5/8 x 2	14 (.083)	.408	.026	.083	.252
3/4 x 1 1/2	16 (.065)	.276	.025	.068	.304
3/4 x 1 1/2	14 (.083)	.346	.031	.082	.297
1 x 1 1/4	14 (.083)	.346	.052	.104	.387
1 x 1 1/2	14 (.083)	.387	.060	.121	.395
1 x 2	14 (.083)	.470	.078	.156	.407
1 x 2 1/2	14 (.083)	.553	.095	.191	.415
1 x 3	14 (.083)	.636	.113	.226	.421
1 x 3 1/2	14 (.083)	.719	.130	.261	.426
1 1/4 x 1 3/4	14 (.083)	.470	.117	.187	.498
1 1/4 x 2	14 (.083)	.512	.131	.209	.506
1 1/4 x 2 1/2	14 (.083)	.595	.159	.255	.517
1 1/4 x 3	14 (.083)	.678	.187	.300	.526
1 1/4 x 3 1/2	14 (.083)	.805	.227	.362	.530
1 1/2 x 2	14 (.083)	.553	.200	.266	.601
1 1/2 x 2 1/2	14 (.083)	.636	.241	.322	.616
1 1/2 x 2 1/2	11 (.120)	.902	.326	.435	.601
1 1/2 x 2 1/2	9 (.145)	1.096	.382	.510	.590
1 1/2 x 2 1/2	7 (.188)	1.363	.452	.602	.578
1 1/2 x 3	16 (.065)	.568	.229	.305	.635
1 1/2 x 3	14 (.083)	.720	.283	.377	.627
1 1/2 x 3	7 (.188)	1.490	.518	.690	.596
1 1/2 x 3 1/2	16 (.065)	.633	.262	.350	.644
1 1/2 x 3 1/2	14 (.083)	.802	.325	.433	.636
2 x 3	14 (.083)	.802	.543	.543	.823
2 x 3	11 (.120)	1.142	.716	.716	.792
2 x 3	7 (.188)	1.677	1.030	1.030	.784
2 x 4	14 (.083)	.968	.696	.696	.848
2 x 4	11 (.120)	1.382	.958	.958	.833
2 x 4	7 (.188)	2.030	1.333	1.333	.810
2 1/2 x 5	7 (.188)	2.671	2.812	2.249	1.025
3 x 4	11 (.120)	1.622	2.412	1.608	1.219
3 x 4	7 (.188)	2.390	3.419	2.279	1.196
3 x 6	7 (.188)	3.242	5.032	3.355	1.246
3 x 6	4 (.250)	4.250	6.338	4.225	1.221
3 x 8	7 (.188)	3.830	6.286	4.190	1.281
4 x 6	7 (.188)	3.610	9.333	4.666	1.608
4 x 6	4 (.250)	4.750	12.432	6.216	1.618
4 x 8	7 (.188)	4.190	11.961	5.981	1.690

This table has been calculated on a theoretical basis. It does not take into account commercial variations of wall thickness, corner radii, internal stresses, etc. While the figures have been ascertained with care, they cannot be guaranteed.

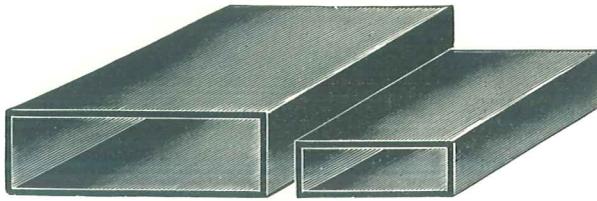
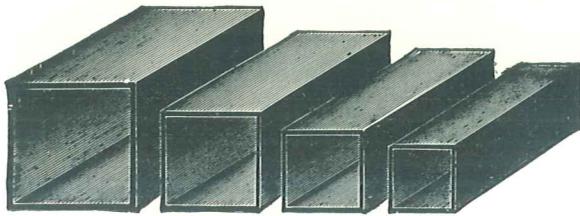
All the sizes listed here are carried in stock for immediate shipment.

For weights, see pages 6 and 7.

JULIUS BLUM & CO., INC. • CARLSTADT, N. J.
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Welded Mechanical Steel Tubing

EVERY SIZE CARRIED IN STOCK IN SUBSTANTIAL QUANTITIES


SQUARE

O.D.	WALL (B.W.G.)	WEIGHT per Foot
3/8" x 3/8" x 18	.2172 lb.	
1/2" x 1/2" x 20	.2213	
1/2" x 1/2" x 18	.3005	
1/2" x 1/2" x 16	.3845	
5/8" x 5/8" x 20	.2808	
5/8" x 5/8" x 18	.3838	
5/8" x 5/8" x 16	.4950	
3/4" x 3/4" x 20	.3043	
3/4" x 3/4" x 16	.6055	
7/8" x 7/8" x 20	.3998	
7/8" x 7/8" x 16	.7160	
1" x 1" x 20	.4593	
1" x 1" x 18	.6337	
1" x 1" x 16	.8265	
1" x 1" x 14	1.035	
1" x 1" x 11	1.436	
1 1/8" x 1 1/8" x 16	.9370	
1 1/4" x 1 1/4" x 20	.5783	
1 1/4" x 1 1/4" x 18	.8003	
1 1/4" x 1 1/4" x 16	1.048	
1 1/4" x 1 1/4" x 14	1.317	
1 1/4" x 1 1/4" x 11	1.844	
1 1/2" x 1 1/2" x 20	.6973	
1 1/2" x 1 1/2" x 18	.9669	
1 1/2" x 1 1/2" x 16	1.269	
1 1/2" x 1 1/2" x 14	1.600	
1 1/2" x 1 1/2" x 11	2.252	
1 3/4" x 1 3/4" x 16	1.490	
1 3/4" x 1 3/4" x 14	1.882	
2" x 2" x 16	1.711	
2" x 2" x 14	2.164	
2" x 2" x 11	3.068	
2 1/2" x 2 1/2" x 16	2.153	
2 1/2" x 2 1/2" x 14	2.728	
2 1/2" x 2 1/2" x 11	3.884	
3" x 3" x 16	2.595	
3" x 3" x 14	3.293	
3" x 3" x 11	4.887	
3" x 3" x 7	6.903	
3" x 3" x 4	8.950	
3 1/2" x 3 1/2" x 11	5.800	
3 1/2" x 3 1/2" x 7	8.129	
4" x 4" x 10	7.045	
4" x 4" x 7	9.350	
4" x 4" x 4	12.18	

RECTANGULAR

O.D.	WALL (B.W.G.)	WEIGHT per Foot	O.D.	WALL (B.W.G.)	WEIGHT per Foot
3/8" x 3/4" x 16	.4950 lb.		2" x 4" x 14	.3293 lb.	
3/8" x 1" x 16	.6055		2" x 4" x 11	4.700	
1/2" x 1 1/4" x 16	.7160		2" x 4" x 7	6.903	
5/8" x 2" x 14	1.458		2 1/2" x 1" x 14	1.882	
3/4" x 3/8" x 16	.4950		2 1/2" x 1 1/4" x 14	2.023	
3/4" x 1 1/2" x 16	.9370		2 1/2" x 1 1/2" x 14	2.164	
3/4" x 1 1/2" x 14	1.176		2 1/2" x 1 1/2" x 11	3.068	
1" x 3/8" x 16	.6055		2 1/2" x 5" x 7	8.743	
1" x 1 1/4" x 14	1.176		3" x 1" x 14	2.164	
1" x 1 1/2" x 14	1.317		3" x 1 1/4" x 14	2.305	
1" x 2" x 14	1.600		3" x 1 1/2" x 16	1.932	
1" x 2 1/2" x 14	1.882		3" x 1 1/2" x 14	2.446	
1" x 3" x 14	2.164		3" x 1 1/2" x 7	5.272	
1" x 3 1/2" x 14	2.446		3" x 2" x 14	2.728	
1 1/4" x 1/2" x 16	.7160		3" x 2" x 11	3.884	
1 1/4" x 1" x 14	1.176		3" x 2" x 7	5.911	
1 1/4" x 1 3/4" x 14	1.600		3" x 4" x 11	5.800	
1 1/4" x 2" x 14	1.741		3" x 4" x 7	8.129	
1 1/4" x 2 1/2" x 14	2.023		3" x 6" x 7	10.57	
1 1/4" x 3" x 14	2.305		3" x 6" x 4	14.45	
1 1/4" x 3 1/2" x 14	2.587		3" x 8" x 7	13.04	
1 1/2" x 3/4" x 16	.9370		3 1/2" x 1" x 14	2.446	
1 1/2" x 3/4" x 14	1.176		3 1/2" x 1 1/4" x 14	2.587	
1 1/2" x 1" x 14	1.317		3 1/2" x 1 1/2" x 16	2.153	
1 1/2" x 2" x 14	1.882		3 1/2" x 1 1/2" x 14	2.728	
1 1/2" x 2 1/2" x 14	2.164		4" x 2" x 14	3.293	
1 1/2" x 2 1/2" x 11	3.068		4" x 2" x 11	4.700	
1 1/2" x 3" x 16	1.932		4" x 2" x 7	6.903	
1 1/2" x 3" x 14	2.446		4" x 3" x 11	5.800	
1 1/2" x 3" x 7	5.272		4" x 3" x 7	8.129	
1 1/2" x 3 1/2" x 16	2.153		4" x 6" x 7	11.81	
1 1/2" x 3 1/2" x 14	2.728		4" x 6" x 4	16.15	
1 3/4" x 1 1/4" x 14	1.600		4" x 8" x 7	14.27	
2" x 5/8" x 14	1.458		5" x 2 1/2" x 7	8.743	
2" x 1" x 14	1.600		6" x 3" x 7	10.57	
2" x 1 1/4" x 14	1.741		6" x 3" x 4	14.45	
2" x 1 1/2" x 14	1.882		6" x 4" x 7	11.81	
2" x 3" x 14	2.728		6" x 4" x 4	16.15	
2" x 3" x 11	3.884		8" x 3" x 7	13.04	
2" x 3" x 7	5.911		8" x 4" x 7	14.27	

Radius of Corners is governed by the wall thickness.

Tubing with 11 ga. and heavier wall has slightly rounded corners.

Square and rectangular steel tubing is carried in stock
in long random lengths up to 20 feet.

Can also be furnished cut to specified lengths.

Additional sizes can be furnished from mill.

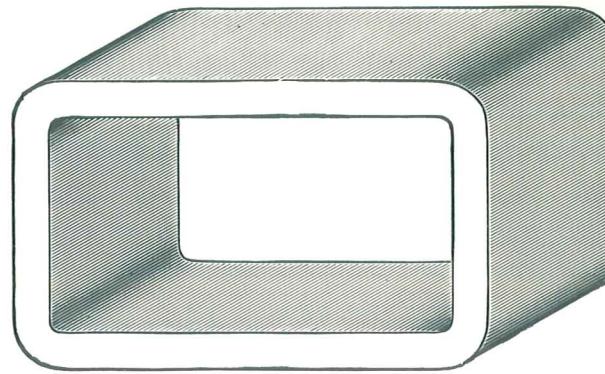
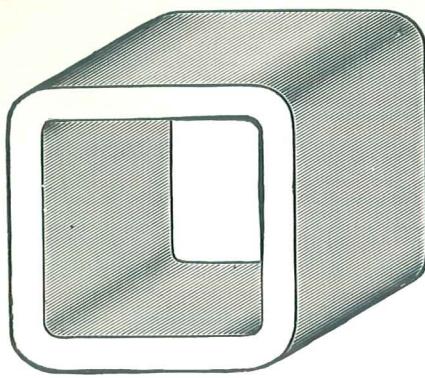
JULIUS BLUM & CO., INC. • CARLSTADT, N. J.

New Jersey Phone: GEneva 8-4600 • New York Phone: OXFORD 5-2236 • Philadelphia Phone: MArket 7-7596

Heavy Wall Square and Rectangular Steel Tubing

Every Size Carried in Stock in Substantial Quantities

Slightly Rounded Corners



SQUARE

O.D.	WALL	Weight per ft.
1" x 1"	x .120"	1.436 lb.
1 1/4" x 1 1/4"	x .120"	1.844
1 1/4" x 1 1/4"	x .135"	2.200
1 1/4" x 1 1/4"	x 3/16"	2.750
1 1/2" x 1 1/2"	x .120"	2.252
1 1/2" x 1 1/2"	x .140"	2.700
1 1/2" x 1 1/2"	x 3/16"	3.050
2" x 2"	x .120"	3.068
2" x 2"	x .145"	3.700
2" x 2"	x 3/16"	4.400
2" x 2"	x 1/4"	5.600
2 1/2" x 2 1/2"	x .120"	3.884
2 1/2" x 2 1/2"	x 3/16"	5.600
2 1/2" x 2 1/2"	x 1/4"	7.350
3" x 3"	x 1/8"	4.887
3" x 3"	x 3/16"	6.903
3" x 3"	x 1/4"	8.940
3 1/2" x 3 1/2"	x 1/8"	5.800
3 1/2" x 3 1/2"	x 3/16"	8.129
4" x 4"	x .134"	7.045
4" x 4"	x 3/16"	9.350
4" x 4"	x 1/4"	12.18

RECTANGULAR

O.D.	WALL	Weight per ft.	O.D.	WALL	Weight per ft.
1 1/2" x 2 1/2"	x .120"	3.068 lb.	3" x 6"	x 3/16"	10.57 lb.
1 1/2" x 2 1/2"	x .145"	3.750	3" x 6"	x 1/4"	14.45
1 1/2" x 2 1/2"	x 3/16"	4.500	3" x 8"	x 3/16"	13.04
1 1/2" x 3"	x 3/16"	5.272	4" x 2"	x .120"	4.887
2" x 3"	x .120"	3.884	4" x 2"	x 3/16"	6.903
2" x 3"	x 3/16"	5.911	4" x 3"	x 1/8"	5.800
2" x 4"	x .120"	4.887	4" x 3"	x 3/16"	8.129
2" x 4"	x 3/16"	6.903	4" x 6"	x 3/16"	11.81
2 1/2" x 3 1/2"	x .120"	3.068	4" x 6"	x 1/4"	16.15
2 1/2" x 3 1/2"	x 3/16"	3.750	4" x 8"	x 3/16"	14.27
2 1/2" x 3 1/2"	x 1/4"	4.500	5" x 2 1/2"	x 3/16"	8.743
2 1/2" x 5"	x 3/16"	8.743	6" x 3"	x 3/16"	10.57
3" x 1 1/2"	x 3/16"	5.272	6" x 3"	x 1/4"	14.45
3" x 2"	x .120"	3.884	6" x 4"	x 3/16"	11.81
3" x 2"	x 3/16"	5.911	6" x 4"	x 1/4"	16.15
3" x 3"	x 1/8"	5.800	8" x 3"	x 3/16"	13.04
3" x 3"	x 3/16"	8.129	8" x 4"	x 3/16"	14.27

Structural Steel Tubing — Square

High Strength — Low Cost

1" x 1" x .073" .92 lb.

Carried in stock in long lengths up to 22 feet. Can also be furnished cut to specified lengths. Additional sizes can be furnished from mill.

All Tubing supplied galvanized to order if required.

Copper Bearing Tubing can be furnished from mill.

SQUARE TUBE SOCKETS

Cast Iron Square Tube Sockets carried in stock for posts 1" square to 3" square. For details see page 42.

POST CAPS

We carry in stock Post Caps for steel tubing from 1 1/2" square to 4" square and from 3" x 4" rectangular to 4" x 8" rectangular. For details, see page 57.

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New Jersey Phone: GEneva 8-4600 • New York Phone: OXFORD 5-2236 • Philadelphia Phone: MArket 7-7596

ARCHITECTURAL BRONZE BARS AND SHAPES

Match color of Bronze Handrails, Saddles and Mouldings

ARCHITECTURAL BRONZE FLATS Sharp Corners

Size	Weight per foot
$\frac{1}{8}'' \times \frac{1}{2}''$	.231 lb.
$\frac{1}{8}'' \times \frac{5}{8}''$	.289
$\frac{1}{8}'' \times \frac{3}{4}''$	.346
$\frac{1}{8}'' \times 1''$	.461
$\frac{1}{8}'' \times 1\frac{1}{4}''$	.576
$\frac{1}{8}'' \times 1\frac{1}{2}''$	.690
$\frac{1}{8}'' \times 2''$	.921

$\frac{3}{16}'' \times \frac{1}{2}''$	.346
$\frac{3}{16}'' \times \frac{5}{8}''$	.432
$\frac{3}{16}'' \times \frac{3}{4}''$	.518
$\frac{3}{16}'' \times 1''$	.689
$\frac{3}{16}'' \times 1\frac{1}{4}''$	.870
$\frac{3}{16}'' \times 1\frac{1}{2}''$	1.040
$\frac{3}{16}'' \times 2''$	1.382
$\frac{3}{16}'' \times 2\frac{1}{2}''$	1.728
$\frac{3}{16}'' \times 3''$	2.075
$\frac{3}{16}'' \times 3\frac{1}{2}''$	2.555

$\frac{1}{4}'' \times \frac{3}{8}''$	.342
$\frac{1}{4}'' \times \frac{1}{2}''$	.456
$\frac{1}{4}'' \times \frac{5}{8}''$	.576
$\frac{1}{4}'' \times \frac{3}{4}''$	.691
$\frac{1}{4}'' \times 1''$	.921
$\frac{1}{4}'' \times 1\frac{1}{4}''$	1.150
$\frac{1}{4}'' \times 1\frac{1}{2}''$	1.380
$\frac{1}{4}'' \times 2''$	1.842
$\frac{1}{4}'' \times 2\frac{1}{2}''$	2.300
$\frac{1}{4}'' \times 3''$	2.766
$\frac{1}{4}'' \times 4''$	3.650

$\frac{3}{8}'' \times \frac{1}{4}''$	.342
$\frac{3}{8}'' \times \frac{1}{2}''$	.684
$\frac{3}{8}'' \times \frac{3}{4}''$	1.040
$\frac{3}{8}'' \times 1''$	1.380
$\frac{3}{8}'' \times 1\frac{1}{4}''$	1.730
$\frac{3}{8}'' \times 1\frac{1}{2}''$	2.070
$\frac{3}{8}'' \times 2''$	2.760
$\frac{3}{8}'' \times 2\frac{1}{2}''$	3.422
$\frac{3}{8}'' \times 3''$	4.106

$\frac{1}{2}'' \times \frac{1}{8}''$	.231
$\frac{1}{2}'' \times \frac{3}{16}''$	.346
$\frac{1}{2}'' \times \frac{1}{4}''$	.456
$\frac{1}{2}'' \times \frac{5}{16}''$	.684
$\frac{1}{2}'' \times 1''$	1.840
$\frac{1}{2}'' \times 1\frac{1}{4}''$	2.281
$\frac{1}{2}'' \times 1\frac{1}{2}''$	2.760
$\frac{1}{2}'' \times 2''$	3.680
$\frac{1}{2}'' \times 2\frac{1}{2}''$	4.600
$\frac{1}{2}'' \times 3''$	5.475

ARCHITECTURAL BRONZE SQUARES Sharp Corners

Size	Weight per foot
$\frac{5}{16}'' \times \frac{5}{16}''$	.360 lb.
$\frac{3}{8}'' \times \frac{3}{8}''$	.518
$\frac{1}{2}'' \times \frac{1}{2}''$	.922
$\frac{5}{8}'' \times \frac{5}{8}''$	1.441
$\frac{3}{4}'' \times \frac{3}{4}''$	2.075
$1'' \times 1''$	3.689
$1\frac{1}{4}'' \times 1\frac{1}{4}''$	5.76
$1\frac{1}{2}'' \times 1\frac{1}{2}''$	8.28

ARCHITECTURAL BRONZE ROUNDS

Dia.	Weight per foot
$\frac{1}{2}''$	.723 lb.
$\frac{5}{8}''$	1.13
$\frac{3}{4}''$	1.63
$1''$	2.89

ARCHITECTURAL BRONZE HALF ROUND

Dia.	Weight per foot
$\frac{1}{4}''$	.10 lb.

ARCHITECTURAL

BRONZE CHANNELS Sharp Corners

Size	Weight per foot
$\frac{1}{2}'' \times \frac{1}{2}'' \times \frac{3}{16}''$	.44 lb.
$\frac{3}{4}'' \times \frac{3}{8}'' \times \frac{1}{8}''$	.57
$\frac{3}{4}'' \times \frac{3}{4}'' \times \frac{1}{8}''$	.90
$1'' \times \frac{1}{2}'' \times \frac{1}{8}''$	.85
$1'' \times \frac{3}{4}'' \times \frac{1}{8}''$	1.04
$1\frac{1}{4}'' \times \frac{1}{2}'' \times \frac{1}{8}''$	.91
$1\frac{1}{4}'' \times \frac{5}{8}'' \times \frac{1}{8}''$	1.06
$1\frac{1}{4}'' \times 1\frac{1}{4}'' \times \frac{1}{8}''$	1.60
$1\frac{1}{2}'' \times \frac{1}{2}'' \times \frac{1}{8}''$	1.02
$1\frac{1}{2}'' \times \frac{5}{8}'' \times \frac{1}{8}''$	1.12
$2'' \times \frac{3}{4}'' \times \frac{1}{8}''$	1.47
$2\frac{1}{4}'' \times \frac{7}{8}'' \times \frac{1}{8}''$	1.75

ARCHITECTURAL BRONZE ANGLES Equal Leg

Sharp Corners

Size	Weight per foot
$\frac{1}{2}'' \times \frac{1}{2}'' \times \frac{1}{8}''$	.42 lb.
$\frac{5}{8}'' \times \frac{5}{8}'' \times \frac{1}{8}''$	.52
$\frac{3}{4}'' \times \frac{3}{4}'' \times \frac{1}{8}''$	.64
$1'' \times 1'' \times \frac{1}{8}''$	.89
$1'' \times 1'' \times \frac{3}{16}''$	1.30

$1\frac{1}{4}'' \times 1\frac{1}{4}'' \times \frac{1}{8}''$	1.09
$1\frac{1}{2}'' \times 1\frac{1}{2}'' \times \frac{1}{8}''$	1.35
$1\frac{1}{2}'' \times 1\frac{1}{2}'' \times \frac{1}{4}''$	2.52
$2'' \times 2'' \times \frac{1}{8}''$	1.79
$2'' \times 2'' \times \frac{1}{4}''$	3.37

ARCHITECTURAL BRONZE ANGLES Unequal Leg Sharp Corners

Size	Weight per foot
$\frac{3}{4}'' \times \frac{3}{8}'' \times \frac{1}{8}''$	.45 lb.
$1'' \times \frac{1}{2}'' \times \frac{1}{8}''$	.65
$1'' \times \frac{3}{4}'' \times \frac{1}{8}''$	.75
$1\frac{1}{4}'' \times \frac{3}{4}'' \times \frac{1}{8}''$	.88
$1\frac{1}{2}'' \times 1'' \times \frac{1}{8}''$	1.10
$2'' \times 1'' \times \frac{1}{8}''$	1.33

Also see page 84.

ARCHITECTURAL BRONZE TEES Sharp Corners

Size	Weight per foot
$\frac{3}{4}'' \times \frac{3}{4}'' \times \frac{1}{8}''$	.64 lb.
$1'' \times 1'' \times \frac{1}{8}''$	.89
$1\frac{1}{2}'' \times 1\frac{1}{2}'' \times \frac{3}{16}''$	1.94

For other architectural bronze items, see catalog sections on "Railings" — "Saddles and Nosings" — "Mouldings and Extrusions."

All Bronze Bars, Shapes, Mouldings and Tubing in our stock are of the same color. There is no possibility of accidental mismatching of colors or alloys.

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ALUMINUM BARS AND SHAPES

ALLOY 6063-T5 (63S-T5) — Suitable for Alumiliting

16 foot lengths, except as noted

ALUMINUM FLATS Sharp Corners

Size	Weight per foot
$\frac{1}{8}'' \times \frac{1}{2}''$	.075 lb.
$\frac{1}{8}'' \times \frac{5}{8}''$	.094
$\frac{1}{8}'' \times \frac{3}{4}''$	.113
$\frac{1}{8}'' \times 1''$	.150
$\frac{1}{8}'' \times 1\frac{1}{8}''$	.169
$\frac{1}{8}'' \times 1\frac{1}{4}''$	.187
$\frac{1}{8}'' \times 1\frac{1}{2}''$	.226
$\frac{1}{8}'' \times 1\frac{3}{4}''$	.263
$\frac{1}{8}'' \times 2''$	.300
$\frac{3}{16}'' \times \frac{1}{2}''$	.113
$\frac{3}{16}'' \times \frac{3}{4}''$	.169
$\frac{3}{16}'' \times 1''$	.226
$\frac{3}{16}'' \times 1\frac{1}{4}''$	.282
$\frac{3}{16}'' \times 1\frac{1}{2}''$	.337
$\frac{3}{16}'' \times 2''$	.450
$\frac{3}{16}'' \times 2\frac{1}{2}''$	.564
$\frac{1}{4}'' \times \frac{1}{2}''$	.150
$\frac{1}{4}'' \times \frac{5}{8}''$	.187
$\frac{1}{4}'' \times \frac{3}{4}''$	.224
$\frac{1}{4}'' \times 1''$	.300
$\frac{1}{4}'' \times 1\frac{1}{4}''$	.374
$\frac{1}{4}'' \times 1\frac{1}{2}''$	.450
$\frac{1}{4}'' \times 1\frac{3}{4}''$	.525
$\frac{1}{4}'' \times 2''$	.600
$\frac{1}{4}'' \times 2\frac{1}{2}''$	.750
$\frac{1}{4}'' \times 3''$	.900
$\frac{1}{4}'' \times 4''$	1.200
$\frac{3}{8}'' \times \frac{1}{2}''$	.224
$\frac{3}{8}'' \times \frac{5}{8}''$	.281
$\frac{3}{8}'' \times \frac{3}{4}''$	.338
$\frac{3}{8}'' \times 1''$	.450
$\frac{3}{8}'' \times 1\frac{1}{4}''$	.563
$\frac{3}{8}'' \times 1\frac{1}{2}''$	.674
$\frac{3}{8}'' \times 2''$	.900
$\frac{3}{8}'' \times 2\frac{1}{2}''$	1.126
$\frac{3}{8}'' \times 3''$	1.350
$\frac{1}{2}'' \times \frac{3}{4}''$	.450
$\frac{1}{2}'' \times 1''$	.600
$\frac{1}{2}'' \times 1\frac{1}{4}''$	.750
$\frac{1}{2}'' \times 1\frac{1}{2}''$	.900
$\frac{1}{2}'' \times 2''$	1.200
$\frac{1}{2}'' \times 2\frac{1}{2}''$	1.500
$\frac{1}{2}'' \times 3''$	1.800
$\frac{3}{4}'' \times 1\frac{1}{2}''$	1.350
$\frac{3}{4}'' \times 2''$	1.800
$\frac{3}{4}'' \times 2\frac{1}{2}''$	2.250
$\frac{3}{4}'' \times 3''$	2.700
$1'' \times 1\frac{1}{2}''$	1.800
$1'' \times 2''$	2.400
$1'' \times 3''$	3.600

ALUMINUM HALF ROUND Random Lengths

Size	Weight per foot
$\frac{1}{4}'' \times \frac{1}{8}''$	.03 lb.

ALUMINUM SQUARES Sharp Corners

Size	Weight per foot
$\frac{3}{8}'' \times \frac{3}{8}''$	.169 lb.
$\frac{1}{2}'' \times \frac{1}{2}''$	.300
$\frac{5}{8}'' \times \frac{5}{8}''$	.468
$\frac{3}{4}'' \times \frac{3}{4}''$	.674
$1'' \times 1''$	1.200
$1\frac{1}{4}'' \times 1\frac{1}{4}''$	1.875
$1\frac{1}{2}'' \times 1\frac{1}{2}''$	2.700

ALUMINUM ROUNDS

Dia.	Weight per foot
$\frac{3}{8}''$	.132 lb.
$\frac{1}{2}''$	.235
$\frac{5}{8}''$	.368
$\frac{3}{4}''$	.530
$1''$	.942

ALUMINUM TEES

Size	Weight per foot
$\frac{3}{4}'' \times \frac{3}{4}''$	.206 lb.
$\frac{3}{4}'' \times 1\frac{1}{4}''$	.280
$1'' \times \frac{3}{4}''$	.244
$1'' \times 1''$	.281
$1\frac{1}{8}'' \times 1\frac{1}{8}''$	.319
$1\frac{1}{4}'' \times \frac{7}{8}''$	.300
$2'' \times 2''$	.856

Also see page 83.

ALUMINUM ZEES

Size	Weight per foot
$\frac{3}{4}'' \times \frac{3}{4}''$	.300 lb.
$\frac{7}{8}'' \times \frac{7}{8}''$	.319
$1'' \times \frac{5}{8}''$	.337

ALUMINUM CHANNELS

Size	Weight per foot
$\frac{3}{8}'' \times \frac{3}{8}'' \times \frac{1}{8}''$	.120 lb.
$\frac{1}{2}'' \times \frac{1}{2}'' \times \frac{3}{8}''$	.148
$\frac{3}{4}'' \times \frac{3}{4}'' \times \frac{1}{8}''$	.300
$1'' \times \frac{1}{2}'' \times \frac{1}{8}''$	.413
$1\frac{1}{4}'' \times 1\frac{1}{4}'' \times \frac{1}{8}''$	.526
$1\frac{1}{2}'' \times 1\frac{1}{2}'' \times \frac{1}{8}''$	.637
$2'' \times 2'' \times \frac{1}{8}''$	.863

ALUMINUM CHANNELS Unequal Sides Sharp Corners

A	B	Thickness	Weight per foot
$\frac{1}{2}''$	$\frac{3}{8}''$	$\frac{1}{8}''$	.150 lb.
$\frac{5}{8}''$	$1''$	$\frac{1}{8}''$	.356
$\frac{3}{4}''$	$\frac{3}{8}''$	$\frac{1}{8}''$	.187
$1''$	$\frac{1}{2}''$	$\frac{1}{8}''$	.263*
$1\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{1}{8}''$	.300*
$1\frac{1}{4}''$	$\frac{5}{8}''$	$\frac{1}{8}''$	.337*
$1\frac{1}{2}''$	$\frac{1}{2}''$	$\frac{1}{8}''$	.337*
$1\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{1}{8}''$	.374*
$1\frac{3}{4}''$	$\frac{3}{4}''$	$\frac{1}{8}''$	.450
$2''$	$\frac{1}{2}''$	$\frac{1}{8}''$	.413
$2''$	$1''$	$\frac{1}{8}''$	.564*
$2\frac{1}{4}''$	$\frac{7}{8}''$	$\frac{1}{8}''$	.563
$3''$	$\frac{1}{2}''$	$\frac{1}{8}''$	.563
$3''$	$1''$	$\frac{1}{8}''$	.713

* 20 foot lengths.

ALUMINUM ANGLES Equal Legs Sharp Corners

Size	Weight per foot
$\frac{1}{2}'' \times \frac{1}{2}'' \times \frac{1}{8}''$	.131 lb.
$\frac{5}{8}'' \times \frac{5}{8}'' \times \frac{1}{8}''$	.168
$\frac{3}{4}'' \times \frac{3}{4}'' \times \frac{1}{8}''$	.206
$1'' \times 1'' \times \frac{1}{8}''$	.281
$1'' \times 1'' \times \frac{3}{16}''$	.408
$1\frac{1}{4}'' \times 1\frac{1}{4}'' \times \frac{1}{8}''$	.356
$1\frac{1}{4}'' \times 1\frac{1}{4}'' \times \frac{3}{16}''$	.519
$1\frac{1}{2}'' \times 1\frac{1}{2}'' \times \frac{1}{8}''$	.431
$1\frac{1}{2}'' \times 1\frac{1}{2}'' \times \frac{3}{16}''$	.633
$2'' \times 2'' \times \frac{1}{8}''$	.581
$2'' \times 2'' \times \frac{3}{16}''$	.857
$2'' \times 2'' \times \frac{1}{4}''$	1.124
$3'' \times 3'' \times \frac{1}{8}''$	.881

ALUMINUM ANGLES Unequal Legs Sharp Corners

Size	Weight per foot
$\frac{1}{2}'' \times 1'' \times \frac{1}{8}''$	.206 lb.
$\frac{1}{2}'' \times 1\frac{1}{4}'' \times \frac{1}{8}''$	.244
$\frac{3}{4}'' \times 1'' \times \frac{1}{8}''$	.244
$\frac{3}{4}'' \times 1\frac{1}{2}'' \times \frac{1}{8}''$	.319
$1'' \times 1\frac{1}{2}'' \times \frac{1}{8}''$	.356
$1'' \times 2'' \times \frac{1}{8}''$	.431
$1'' \times 3'' \times \frac{1}{8}''$	.581
$1\frac{1}{4}'' \times 3\frac{1}{2}'' \times \frac{1}{8}''$	.694

All items can be furnished cut to specified lengths when required.

For other aluminum extruded shapes, see sections on "Railings," "Saddles-Nosings," "Mouldings-Functional Shapes."

TRELLAGE

RAILINGS
SADDLES—NOSINGS
MOULDINGS—FUNCTIONAL SHAPES

ORNAMENTS—HARDWARE
MACHINES

ALUMINUM TUBING AND PIPE

Alloy 6063-T5 (63S-T5), except as noted. Suitable for alumiliting.

All sizes carried in stock in substantial quantities.



ALUMINUM SQUARE TUBING

Sharp Corners
18 foot lengths

Size	Wall Thickness	Weight per foot
1/2" x 1/2"	.062"	.130 lb.
5/8" x 5/8"	.062"	.167
3/4" x 3/4"	.062"	.205
3/4" x 3/4"	.125"	.374
1" x 1"	.062"	.278
1" x 1"	.125"	.525
1 1/4" x 1 1/4"	.078"	.438
1 1/4" x 1 1/4"	.125"	.675
1 1/2" x 1 1/2"	.078"	.532
1 1/2" x 1 1/2"	.125"	.825
1 3/4" x 1 3/4"	.125"	.975
2" x 2"	.078"	.720
2" x 2"	.125"	1.124
2 1/2" x 2 1/2"	.125"	1.424*
3" x 3"	.125"	1.724

* Alloy 3003-F (3S-F).



ALUMINUM RECTANGULAR TUBING

Sharp Corners

18 foot lengths, except as noted

Size	Wall Thickness	Weight per foot
1/2" x 1"	.125"	.374 lb.
3/4" x 1 1/2"	.125"	.588
1" x 1 1/2"	.125"	.661
1" x 2"	.125"	.825
1 1/4" x 2 1/2"	.125"	1.050
1 1/2" x 2"	.125"	.967
1 1/2" x 6"	.125"	2.135***
1 3/4" x 2 1/4"	.125"	1.125*
1 3/4" x 3"	.125"	1.323*
1 3/4" x 3 1/2"	.125"	1.470
1 3/4" x 4"	.125"	1.650*
1 3/4" x 5"	.125"	1.910*
2" x 3"	.125"	1.395**
2" x 5"	.125"	1.985*

* 21 foot lengths.

** 20 foot lengths.

*** Alloy 3003-F (3S-F) 21 foot lengths.



ALUMINUM ROUND TUBING

Thin Wall

Alloy 3003-H14 (3S-H14)
12 foot lengths

Size	Wall Thickness	Weight per foot
1" O.D.	.058"	.202 lb.
1 1/4" O.D.	.058"	.256
1 1/2" O.D.	.065"	.329



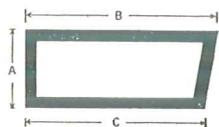
ALUMINUM ROUND TUBING

Standard Pipe Sizes
20 foot lengths

Nominal Size	Wall Thickness	Weight per foot
3/4" 1.050"	.113"	.391 lb.
1" 1.315"	.133"	.581
1 1/4" 1.660"	.140"	.785*
1 1/2" 1.900"	.145"	.940*
2" 2.375"	.154"	1.264

This pipe is of tubing quality, combining accurate dimensions, straightness and superior finish.

* Alloy 6063-T832 (63S-T832).



ALUMINUM BEVEL FACE TUBING

Sharp Corners — 21 foot lengths

A	B	C	Wall Thickness	Weight per foot
1 3/4"	1.859"	1 3/4"	.125"	1.090 lb.
1 3/4"	5"	4 7/8"	.125"	1.900



ALUMILITE FINISH Aluminum Rectangular Tubing

Sharp Corners — 21 foot lengths

Size	Wall Thickness	Weight per foot
1 3/4" x 3" x .125"		1.323 lb.
1 3/4" x 4" x .125"		1.650
1 3/4" x 5" x .125"		1.910
2" x 5" x .125"		1.985

Upon request, any size of aluminum will be shipped to alumiliting plant for customer's account.

RED BRASS TUBING AND PIPE

Matches the color of extruded architectural bronze.

All sizes carried in stock in substantial quantities.



RED BRASS SQUARE TUBING

Sharp Corners — 16 foot lengths

Size	Wall Thickness	Weight per foot
1/2" x 1/2" x .065"		.43 lb.
5/8" x 5/8" x .065"		.55
3/4" x 3/4" x .065"		.68
1" x 1" x .065"		.92
1 1/4" x 1 1/4" x .083"		1.46
1 1/2" x 1 1/2" x .083"		1.79
2" x 2" x .083"		2.53



RED BRASS RECTANGULAR TUBING

Sharp Corners — 16 foot lengths

Size	Wall Thickness	Weight per foot
1" x 1/2" x .065"		.65 lb.
1 1/2" x 3/4" x .065"		1.02
1 1/2" x 1" x .083"		1.50
2" x 1" x .083"		1.78
2 1/2" x 1 1/4" x .083"		2.15
3" x 1 1/2" x .083"		2.68
3" x 1 3/4" x .083"		2.83
3" x 2" x .083"		3.05
4" x 1 3/4" x .083"		3.46
4 1/2" x 1 3/4" x .083"		3.98
5" x 1 3/4" x .083"		4.08



RED BRASS ROUND TUBING

Standard Pipe Sizes

Plain Ends—Unmarked—20 foot lengths		
Nominal Size	Wall Thickness	Weight per foot
1 1/4" 1.660"	.140"	2.63 lb.
1 1/2" 1.900"	.145"	3.13

All sizes can be furnished cut to specified lengths when required.

Also see sections on "Railings," "Saddles-Nosings" and "Mouldings-Functional Shapes."

TREILLAGE

ORNAMENTAL double faced castings in this section are made of high grade malleable iron. They will not break under ordinary conditions and will withstand considerable abuse. They may be bent cold to meet individual conditions such as may occur on curved railings, etc. They may be welded into the frame work and they can be hammered or given any type of finish.

Castings are clean in appearance with every detail executed perfectly.

Every item listed in this section is carried in stock in substantial quantities. Shipment usually can be made immediately upon receipt of order.

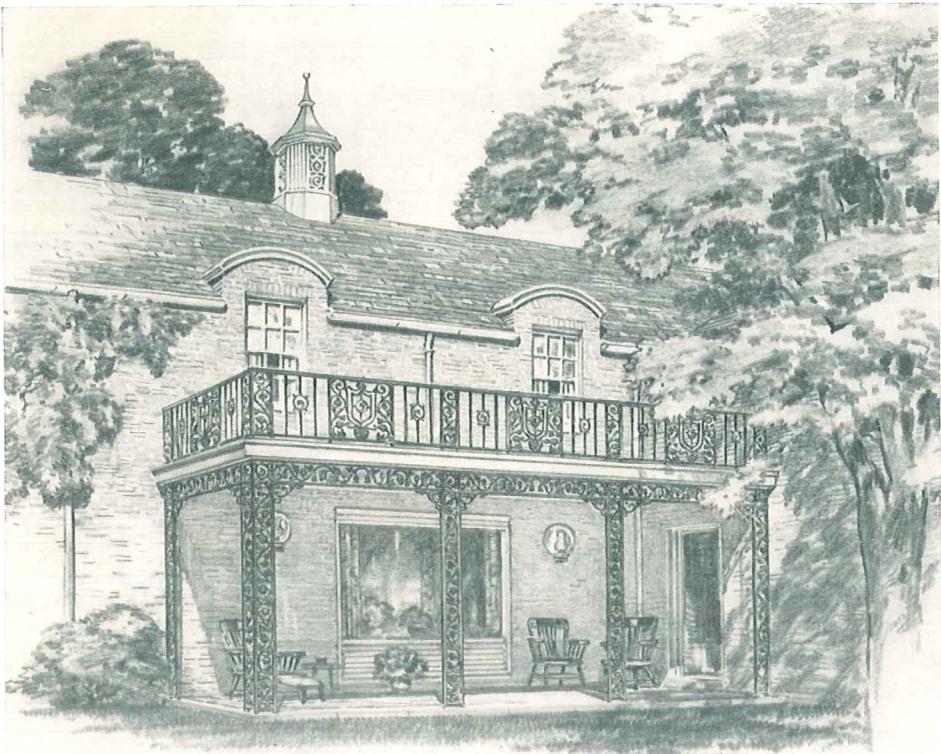
Approximate Weights of Double Faced Ornamental Castings:

No. 511	11.2 lbs.	No. 525	4.2 lbs.
No. 512	4.0 lbs.	No. 526	2.6 lbs.
No. 513	25.2 lbs.	No. 527	3.7 lbs.
No. 514	3.4 lbs.	No. 537	4.4 lbs.
No. 515	8.7 lbs.	No. 538	7.4 lbs.
No. 515-B	4.9 lbs.	No. 539	8.2 lbs.
No. 516	3.7 lbs.	No. 540*	9.0 lbs.
No. 517	12.0 lbs.	No. 541*	10.0 lbs.
No. 518	11.3 lbs.	No. 550	6.7 lbs.
No. 519	12.5 lbs.	No. 551	2.4 lbs.
No. 520*	10.5 lbs.	No. 552	4.3 lbs.
No. 521*	16.0 lbs.	No. 555	7.3 lbs.
No. 522*	8.4 lbs.	No. 556	7.9 lbs.
No. 523*	6.9 lbs.	No. 557	12.1 lbs.
No. 524	4.3 lbs.	No. 558	14.0 lbs.

Items marked * can also be furnished in aluminum

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A typical application showing the use of castings No. 520 to No. 527.

For details of castings see opposite page.



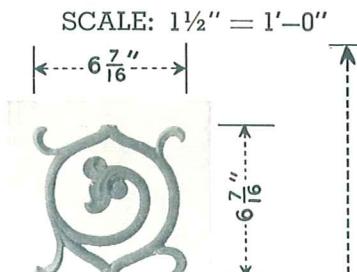
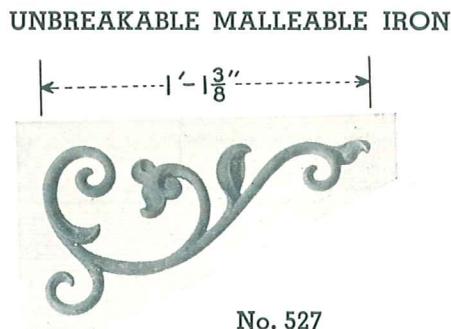
A typical application showing the use of castings No. 511 to No. 515.

For details of castings, see page 16.

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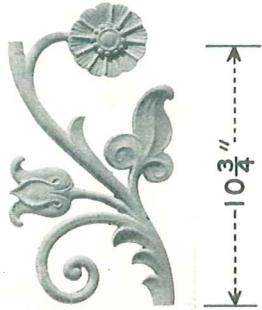
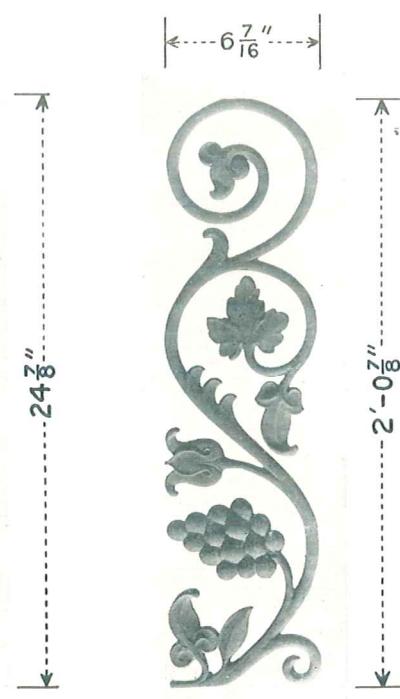
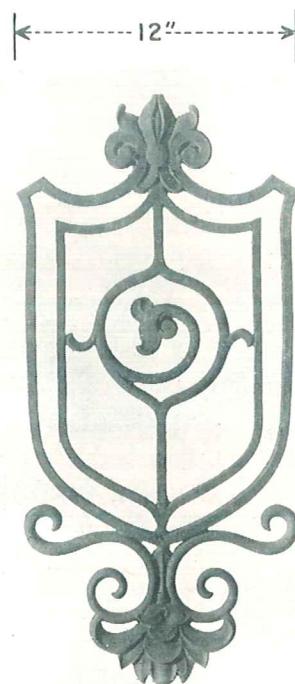
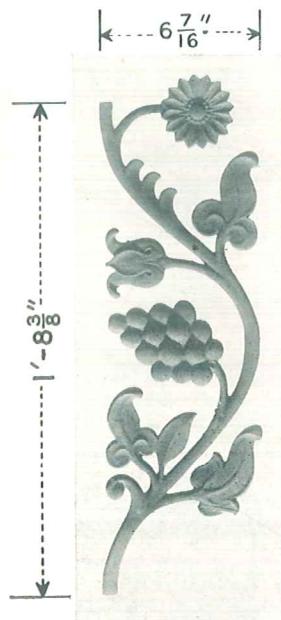
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ORNAMENTAL DOUBLE FACED CASTINGS



A series of related designs which may be combined to meet required dimensions and conditions. See illustration page 14.

For approximate weights of castings, see page 13.

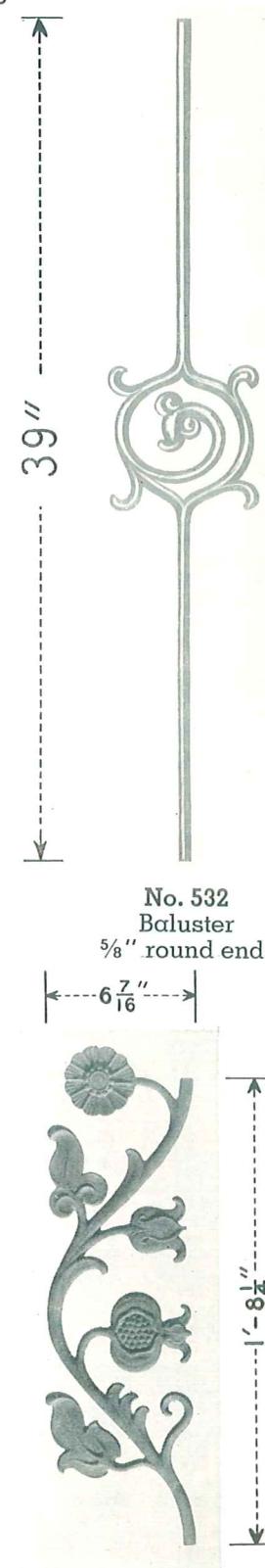


Castings No. 520 and No. 521 are suited for railing panels.

Castings No. 522 and No. 523 may be repeated or alternated.

Castings No. 524 and No. 525 are used as starting and end panels, together with Castings No. 522 and No. 523.

All castings are reversible.

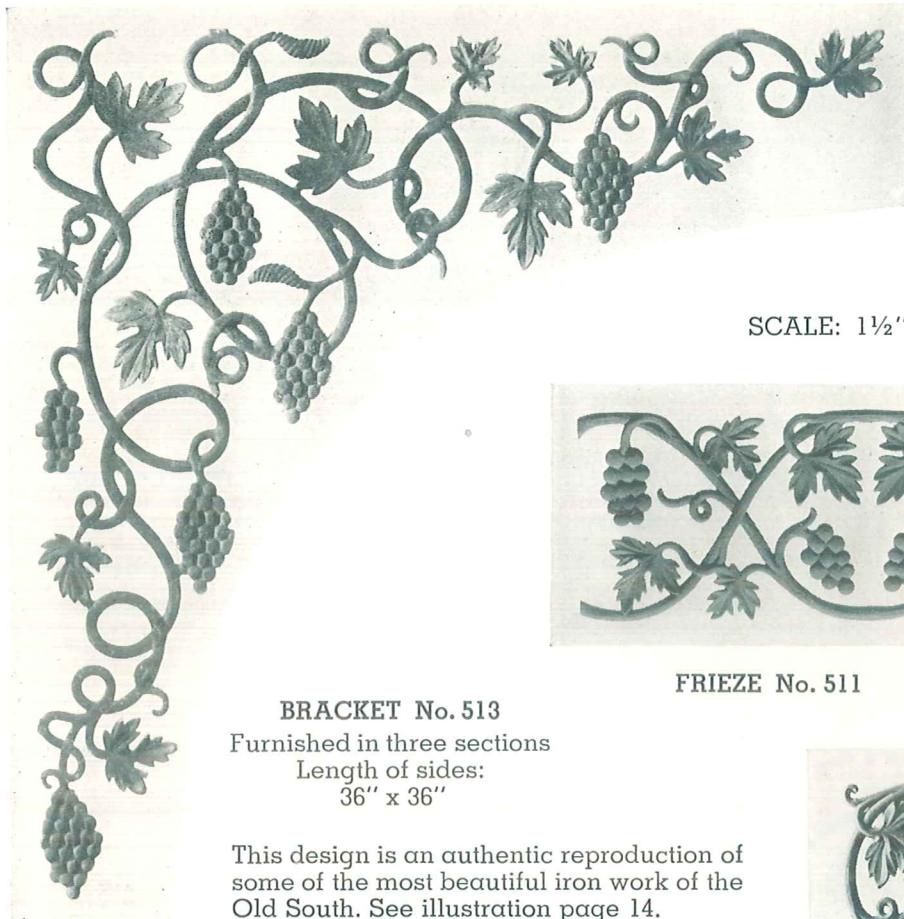


No. 523
Continuous Design

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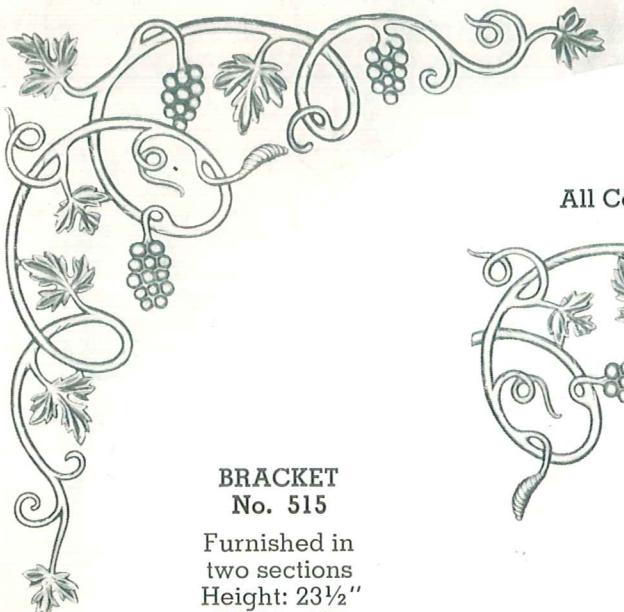
ORNAMENTAL DOUBLE FACED CASTINGS

UNBREAKABLE MALLEABLE IRON



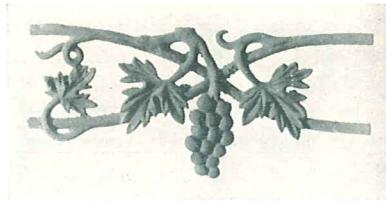
BRACKET No. 513
Furnished in three sections
Length of sides:
36" x 36"

This design is an authentic reproduction of some of the most beautiful iron work of the Old South. See illustration page 14.



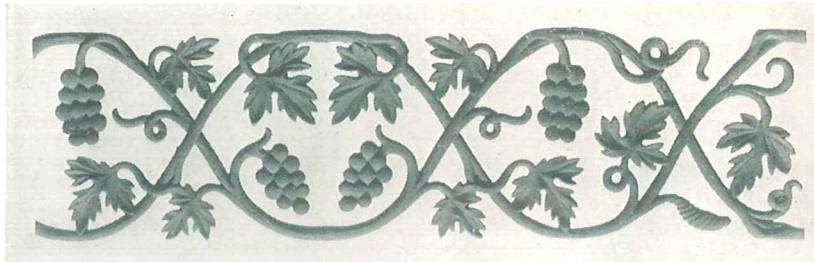
**BRACKET
No. 515**
Furnished in
two sections
Height: 23½"
Width: 25"

For approximate weights of castings, see page 13.

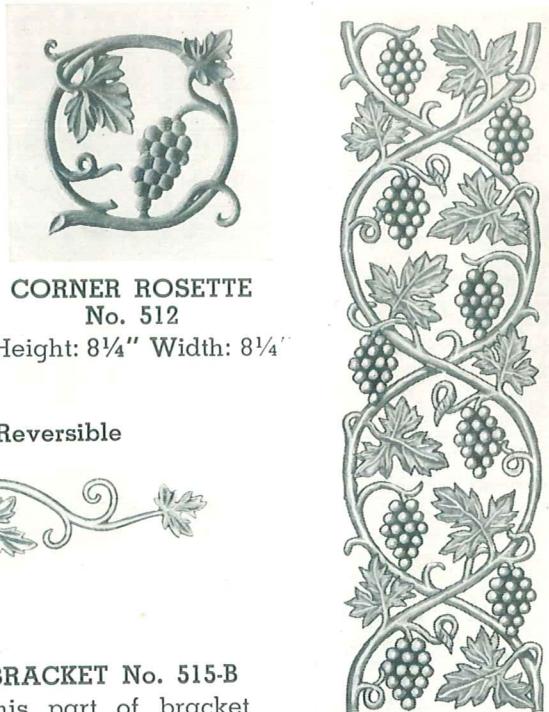


VALANCE No. 514
Length: 14" Height: 6½"

SCALE: 1½" = 1'-0"

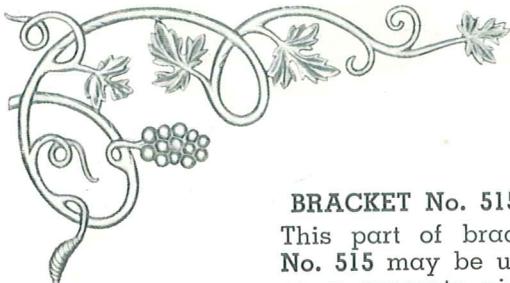


FRIEZE No. 511 Length: 31" Width: 8¼"



**CORNER ROSETTE
No. 512**
Height: 8¼" Width: 8¼"

All Castings are Reversible



BRACKET No. 515-B
This part of bracket
No. 515 may be used
as a separate piece.
Height: 11½" Width: 21"

For Column or Railing
Panel—No. 510
Height: 29" Width: 8¼"

ORNAMENTAL DOUBLE FACED CASTINGS

UNBREAKABLE MALLEABLE IRON

$20\frac{3}{4}''$

$11\frac{1}{2}''$



No. 557
Bracket Casting



No. 556
Bracket Casting



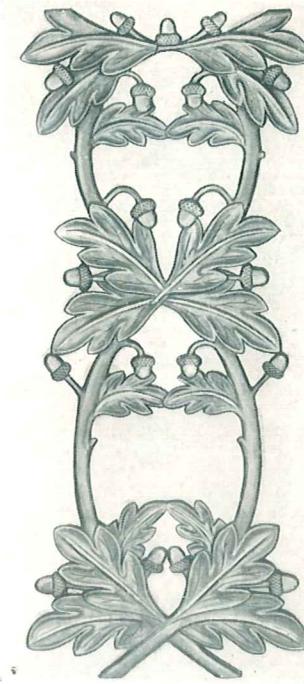
CORNER
No. 549
Height: 9 1/4", Width: 9 1/4"

Scale: $1\frac{1}{2}'' = 1'$

$9\frac{1}{4}''$



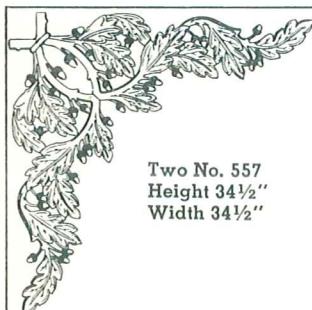
No. 555
Continuous Design



No. 558
Railing Panel

For approximate
weights of castings,
see page 13.

ALL CASTINGS ARE REVERSIBLE



Two No. 556
Height 34 1/2"
Width 34 1/2"



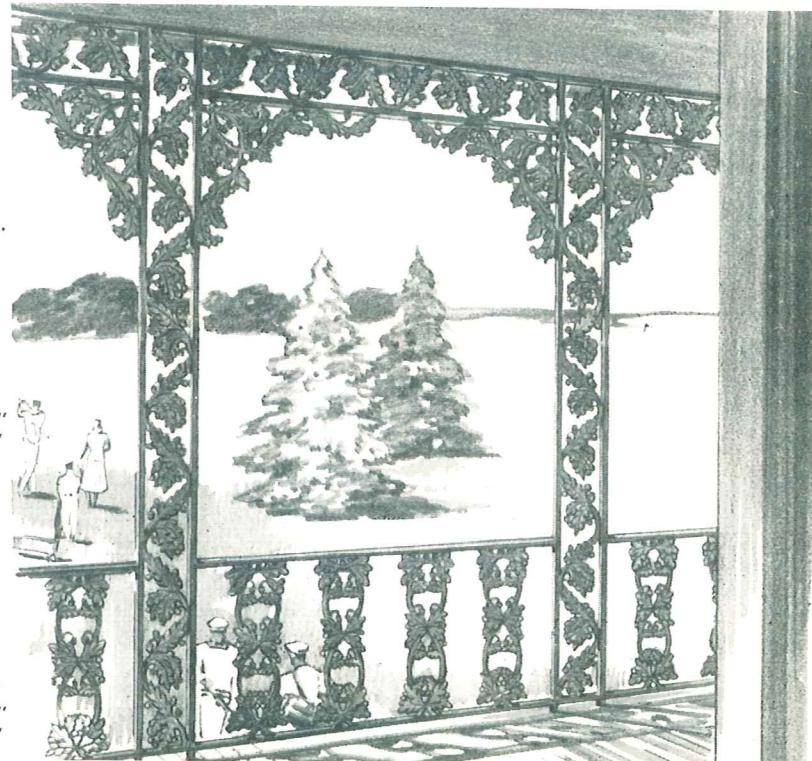
Two No. 556
Height 34 1/2"
Width 23 1/2"



One No. 556
One No. 557
Height 23 1/2"
Width 34 1/2"



One No. 556
One No. 557
Height 23 1/2"
Width 23 1/2"



A TYPICAL APPLICATION OF CASTINGS NO. 555 to NO. 558

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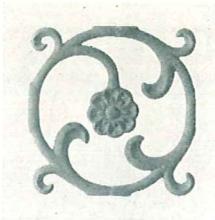
ORNAMENTAL DOUBLE FACED CASTINGS

UNBREAKABLE MALLEABLE IRON

SCALE: $1\frac{1}{2}'' = 1'-0''$ 

No. 550

Height 34"
Width 7 $\frac{1}{8}$ "



No. 551

Height 7 $\frac{1}{8}$ "
Width 7 $\frac{1}{8}$ "



No. 552

Length 19"
Height 10"

A series of designs to produce a graceful scroll-like effect. Although delicate and light in appearance these castings have ample strength for all practical purposes and are easily assembled.

No. 551 Casting may be used for corner terminations or railing panels.

No. 552 Casting is also adaptable as a hanging sign or lamp bracket.



MALLEABLE IRON

NO BREAKAGE

ALL CASTINGS
ARE REVERSIBLE

For approximate weights
of castings, see page 13.

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ORNAMENTAL DOUBLE FACED CASTINGS

MALLEABLE IRON • NO BREAKAGE

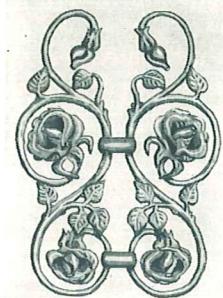
SCALE 1 $\frac{1}{2}$ " = 1'-0"

ALL CASTINGS ARE REVERSIBLE



No. 572
Continuous Design

Height: 22 $\frac{1}{2}$ "
Width: 6 $\frac{7}{8}$ "



No. 570 Panel
For railings or columns.

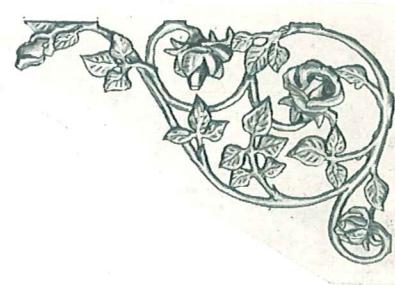
Height: 12 $\frac{1}{2}$ "
Width: 8 $\frac{1}{2}$ "

Can be attached to
square balusters
in the same way
as castings on page 51.



No. 573
Corner Rosette

Height: 6 $\frac{7}{8}$ "
Width: 6 $\frac{7}{8}$ "



No. 574
Corner Bracket

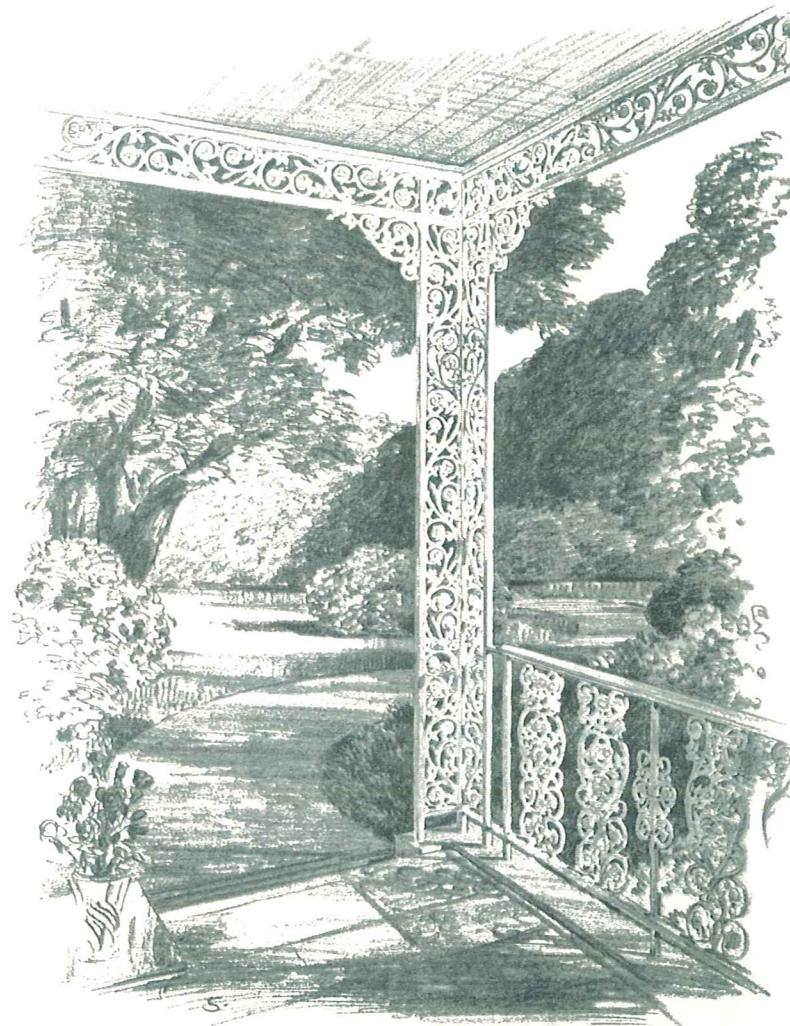
Height: 10 $\frac{1}{4}$ "
Width: 16"

This series is a fine new design
based on the popular rose pattern.



No. 571 Railing Panel

Height: 28"
Width: 11"



A typical application showing the use of castings Nos. 570 to 574.

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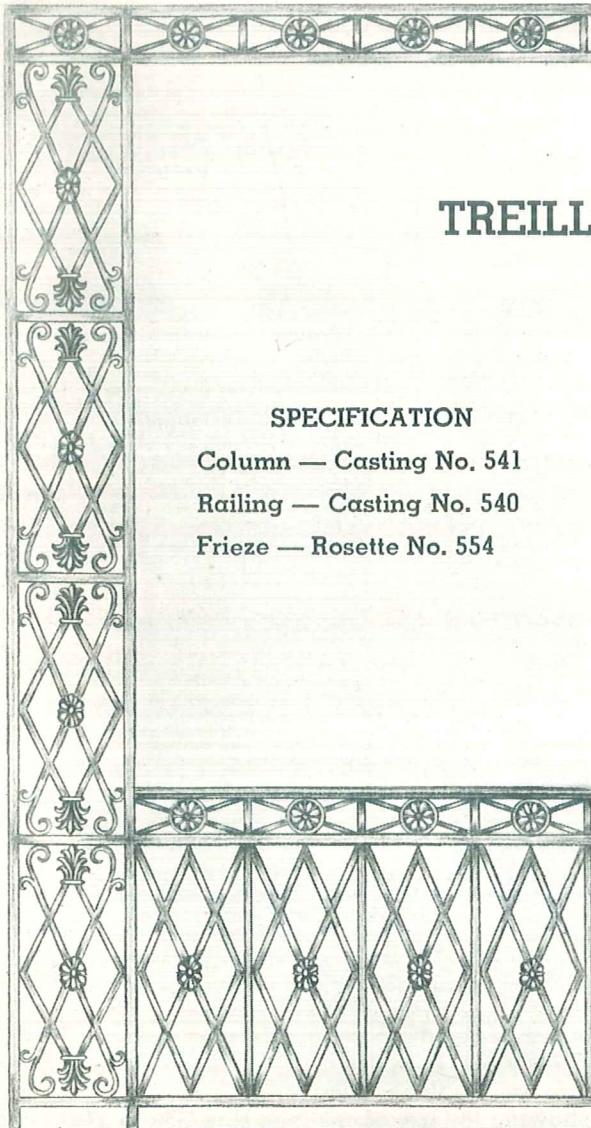
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RAILING DESIGN



SPECIFICATION

End Panel and Center Panel — Casting No. 538
Ornamental Baluster — No. 529



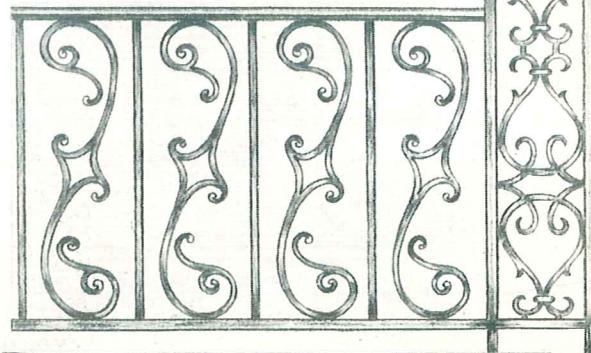
TREILLAGE DESIGNS

SPECIFICATION

Column — Casting No. 541
Railing — Casting No. 540
Frieze — Rosette No. 554

SPECIFICATION

Column — Casting No. 539
Railing — Casting No. 537
Frieze — Casting No. 539
Cut Lengthwise



ORNAMENTAL DOUBLE FACED CASTINGS

UNBREAKABLE MALLEABLE IRON

SCALE: $1\frac{1}{2}'' = 1'-0''$



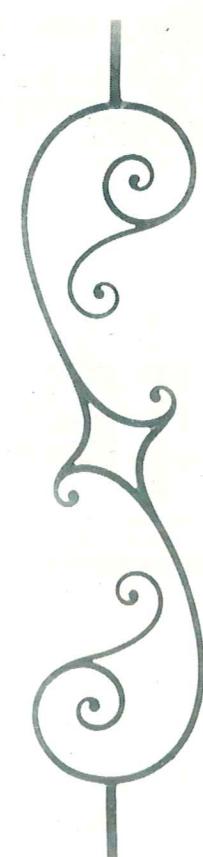
No. 538



No. 537



No. 539



No. 537



No. 538

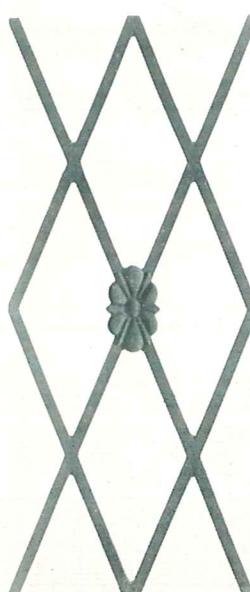
DIMENSIONS

Casting No.	Height overall	Height Scroll only	Width	Cross Section
537	37"	28"	8 1/4"	{ Scroll $1\frac{1}{2}'' \times \frac{5}{16}''$ } Ends $1\frac{1}{2}'' \times \frac{1}{2}''$
538	33"	29"	9 1/4"	{ Scroll $\frac{5}{8}'' \times \frac{5}{16}''$ } Ends $1\frac{1}{2}'' \times \frac{1}{2}''$
539	34"	26 1/2"	8 1/2"	{ Scroll $\frac{5}{8}'' \times \frac{5}{16}''$ } Ends $1\frac{1}{2}'' \times \frac{1}{2}''$
540	24"		10 5/8"	$\frac{5}{8}'' \times \frac{1}{2}''$
541	24"		10 5/8"	$\frac{5}{8}'' \times \frac{1}{2}''$

These castings are reproductions of attractive wrought iron designs.

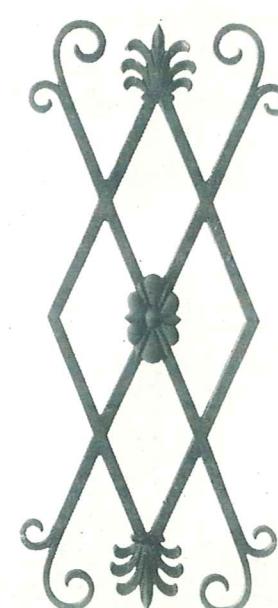
Castings No. 537, No. 538 and No. 539 can be cut down to the required length without interfering with the design.

Castings No. 540 and No. 541 can be used together in the same panel.



No. 540

For approximate weights of castings, see page 13.



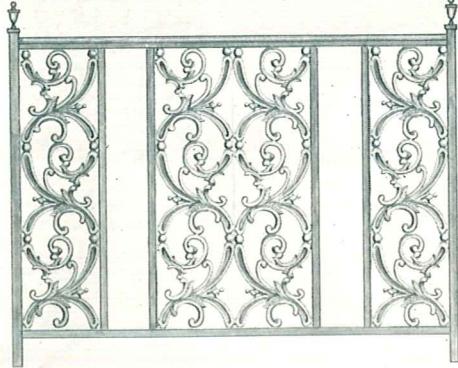
No. 541

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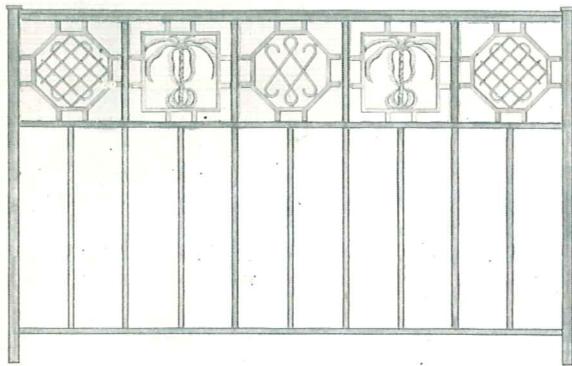
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TYPICAL APPLICATIONS OF
ORNAMENTAL DOUBLE FACED CASTINGS
 FOR COLUMNS AND RAILINGS

NOT TO SCALE



Railing Showing Casting No. 576



Railing Showing Castings Nos. 591, 593 and 594



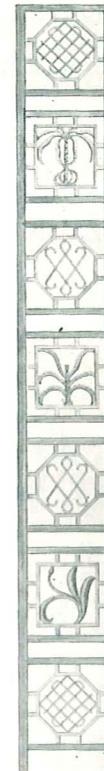
Castings
No. 584



Castings
No. 580

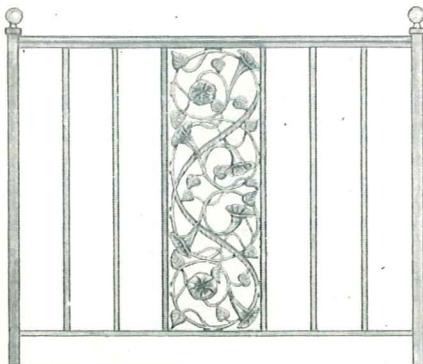


Castings
No. 576

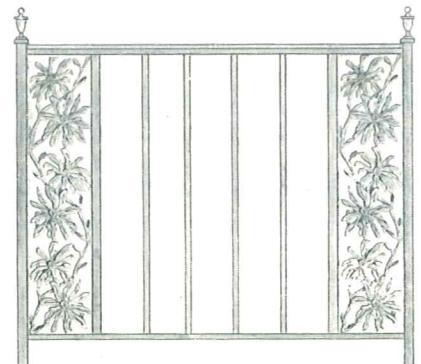


Castings
Nos. 591 to 595

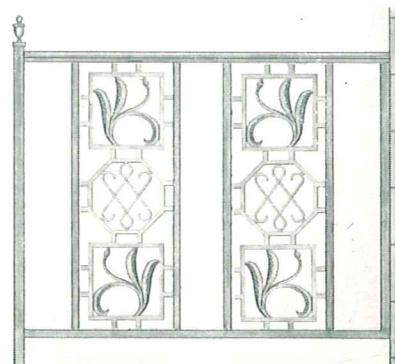
These illustrations are offered as suggestions only. We do not manufacture or assemble railings and columns.



Railing Showing Casting No. 580



Railing Showing Casting No. 584



Railing with Casting Nos. 592 and 594

ORNAMENTAL DOUBLE FACED CASTINGS

UNBREAKABLE MALLEABLE IRON

SCALE $1\frac{1}{2}'' = 1'-0''$

These new castings, representing classic and modern designs, can be used singly or in continuous runs.

They are clean in appearance with every detail executed perfectly.

All castings are reversible.

See page 22 for typical applications.



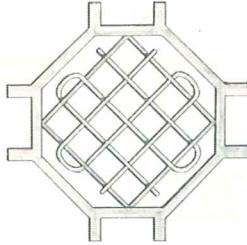
No. 576
Height: 29"
Width: 8"



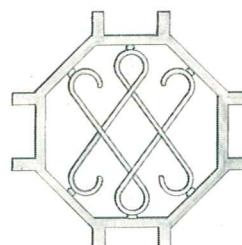
No. 584
Height: 29"
Width: 6½"



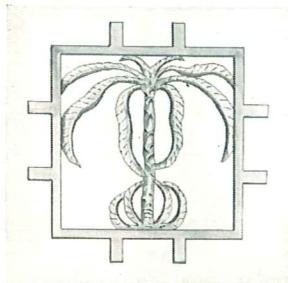
No. 580
Height: 28"
Width: 9"



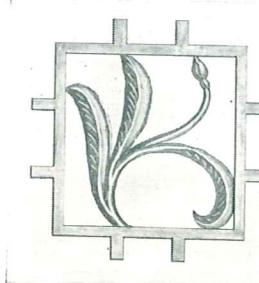
No. 593



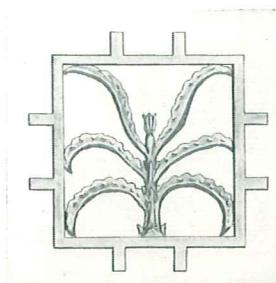
No. 594



No. 591



No. 592



No. 595

Castings No. 591 to 595 can be combined to produce interesting modern designs.

All have identical dimensions:
Size, over all: 10" x 10"
Size, without legs: 8" x 8"
Cross section: frame $\frac{3}{8}'' \times \frac{5}{8}''$
legs $\frac{1}{2}'' \times \frac{5}{8}''$

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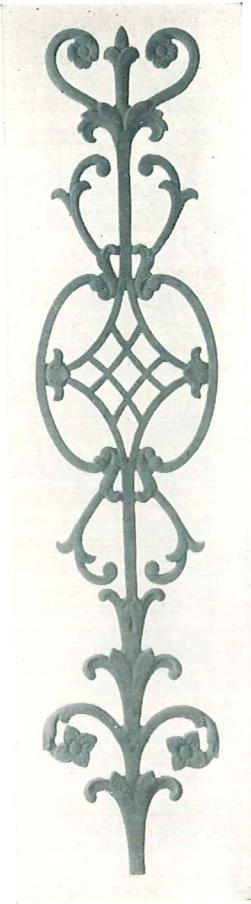
ORNAMENTAL DOUBLE FACED CASTINGS

UNBREAKABLE MALLEABLE IRON

Scale: $1\frac{1}{2}$ " = 1'-0"



No. 517
Height: 34 $\frac{1}{2}$ "
Width: 7 $\frac{5}{8}$ "



No. 518
Height: 35 $\frac{1}{2}$ "
Width: 7 $\frac{5}{8}$ "



No. 519
Height: 32"
Width: 7 $\frac{5}{8}$ "



No. 516
Length: 13 $\frac{1}{4}$ "
Height: 8 $\frac{1}{4}$ "

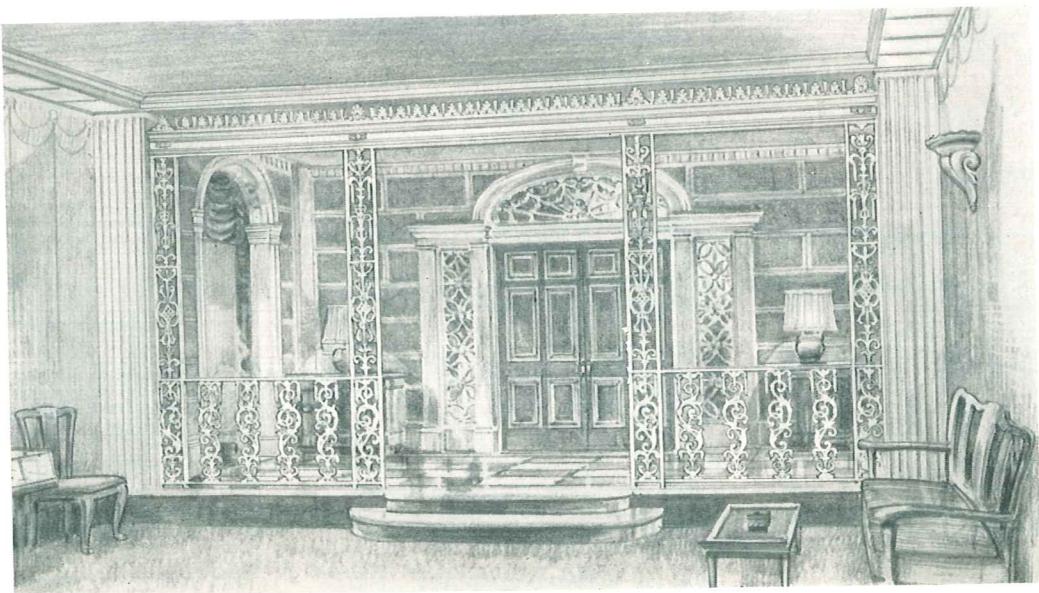
This series of Castings represents an authentic old design. The three panels can be used in combination, as shown below. They also make attractive railing panels.

All castings are reversible.

For approximate weights of castings, see page 13.

MALLEABLE IRON

•
NO BREAKAGE





No. 561
Height 12"
Width 8½"



No. 559
Height 15"
Width 7"

ORNAMENTAL PANELS FOR COLUMNS AND RAILINGS

Unbreakable Malleable Iron

Scale (individual panels) 1½" = 1'-0"

Sketches of typical Applications not to scale

Each panel has two collars, open on one side, to fit ½" square bar. The center bar may run continuously from top to bottom of column, or in short sections to form connection between panels.

For greater variety, ornamental balusters or baluster collars may alternate with panel castings. See pages 41, 43 and 48.



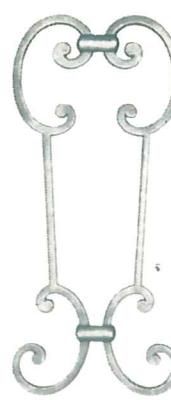
No. 567
Height 16"
Width 8½"



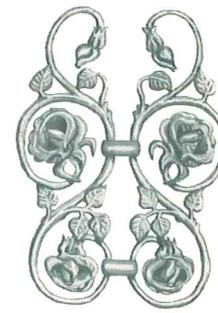
No. 565
Height 15"
Width 8½"



No. 560
Height 16"
Width 8½"

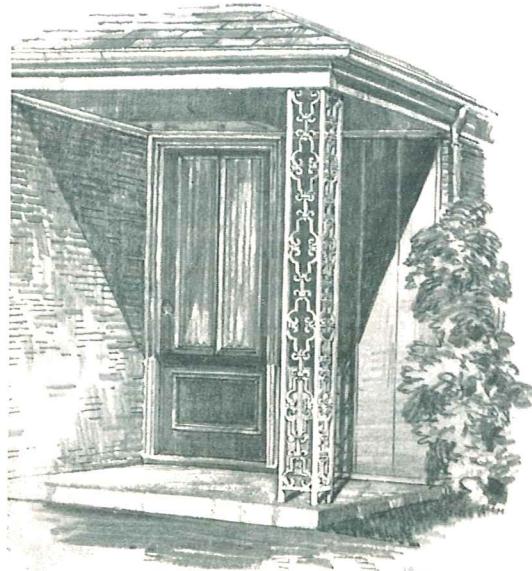


No. 566
Height 16"
Width 7"



No. 570
Height 12½"
Width 8½"

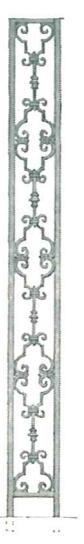
Illustrations below are offered as suggestions only. We do not furnish assembled columns.



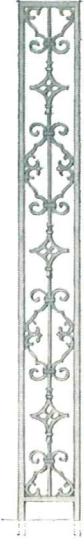
No. 559



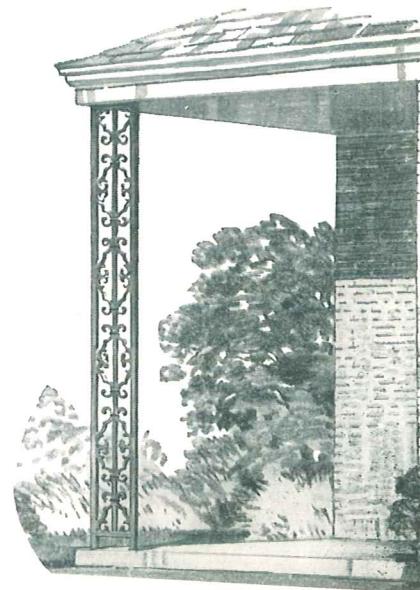
No. 565



No. 559
with collar
No. 365



No. 560
with baluster
No. 528

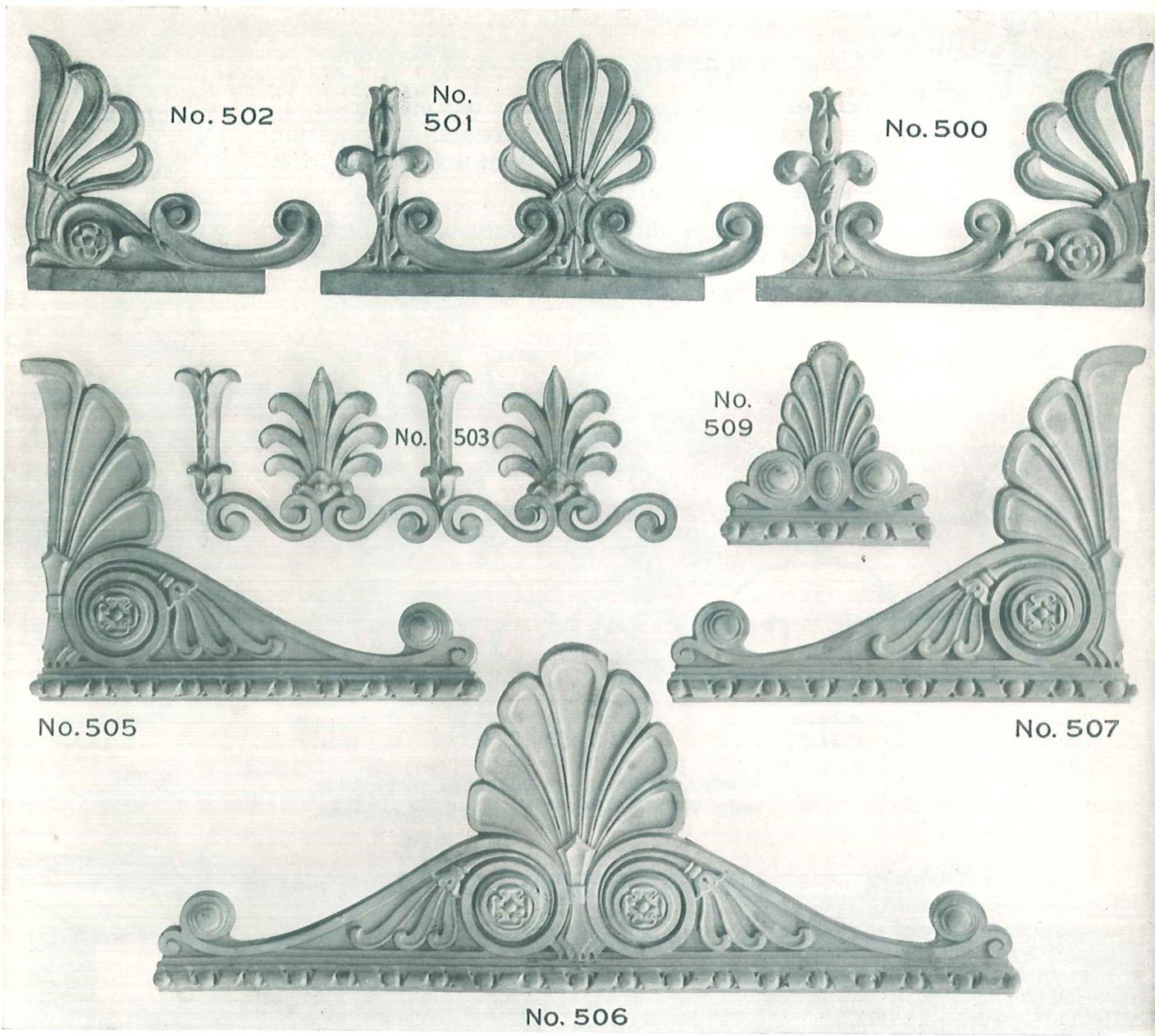


No. 560

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CAST IRON CRESTINGS

For the Construction of Marquises, Awning Boxes, Show Cases, Etc.



Illustrations shown are ONE-QUARTER actual size

Corners Nos. 500 and 502 and Corners Nos. 505 and 507 are cast on a mitre and will form a perfect right or left corner. Corners Nos. 505 and 507 and Centers Nos. 506 and 509 have lugs in back for fastening. Crestings Nos. 500, 501 and 502 as well as 503 form continuous interlocking designs. Crestings Nos. 505, 506, 507, 509 can be used as a continuous design or they may be spaced at intervals.

Our Cast Iron Crestings are a Finished Product of Superb Quality

NO PATTERNS

NO WAITING

NO FINISHING

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RAILINGS

EVERY item listed in this section is carried in stock in substantial quantities and shipment usually can be made immediately upon receipt of order.

All rolled and extruded shapes in this section are carried in stock in long random lengths. With the exception of Hot Rolled Steel Handrails, they can also be furnished cut to specified lengths. Weights are shown in pounds per lineal foot. These weights are approximate and, while they have been ascertained with care, they cannot be guaranteed. Materials sold by the pound are invoiced according to actual scale weight.

All bronze items, extrusions as well as castings, are of matching color.

All aluminum extrusions are alloy 6063 (63-S); all aluminum castings are alloy 214. These alloys are recommended for architectural work because of their bright color, ease of fabrication and corrosion resistance. They are suitable for aluminum.

Since all our bronze and aluminum items are of uniform composition, the chance of accidental mis-matching of alloys or colors through shipping errors is eliminated.

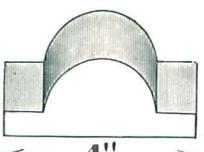
Subjects covered in this section:

Rolled Steel	Page No.
Handrail Mouldings	28, 29, 30, 33
Baluster Bars and Posts	44, 46 to 49
Loafers Rail	41
Square Bar, Channel	29
Newel Post Tubing	56
Extruded Aluminum	
Handrail Mouldings	34, 35
Handrail Pipe	63
Extruded Bronze	
Handrail Mouldings	33, 35
Handrail Pipe	61
Tie Band Strip	41
Railing Fittings	
For Steel Handrail Moulding	30 to 33
For Aluminum and Bronze Handrail Moulding	36, 37
For Steel Pipe Railings	58 to 60

Railing Fittings (cont'd)	Page No.
For Bronze Pipe Railings	61
For Aluminum Pipe Railings	62, 63
Handrail Brackets, Iron	32, 60
Handrail Brackets, Bronze, Aluminum	37, 61 to 63
Ornamental Balusters, Posts, Collars, Bases	
Balusters, Forged Steel	44, 48, 49
Spindles, Forged Steel	44, 47
Spindles, Hollow	46
Starting Posts	44, 45
Collars and Bases, Iron, Bronze, Aluminum	42, 43
Baluster Collars, Ornamental	41
Ornamental Railing Panels	50 to 55
Urns and Finials, Iron, Bronze, Aluminum	38 to 40
Sockets, for Square Tubes and Posts	42
Post Caps, Iron, Steel, Bronze, Aluminum, Stainless Steel	57

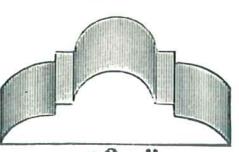
ROLLED STEEL HANDRAILS

No. 4403

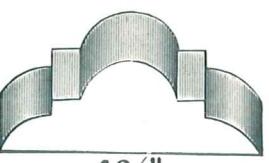


.82 lb.

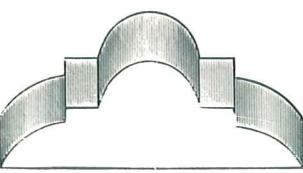
No. 4411

 $1\frac{3}{16}$ "

No. 4412

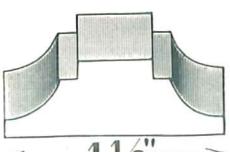
 $1\frac{3}{8}$ "

No. 4413

 $1\frac{9}{16}$ "

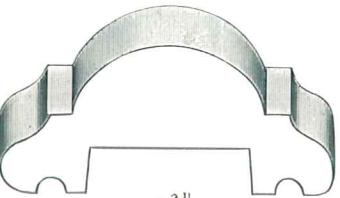
1.65 lb.

No. 4474

 $1\frac{1}{8}$ "

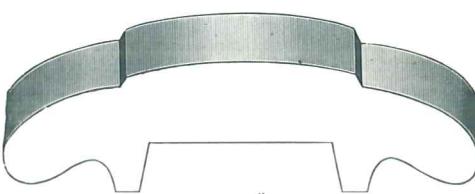
.96 lb.

No. 4446

 $1\frac{3}{4}$ "

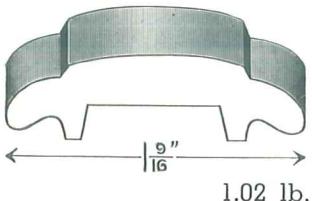
2.18 lb.

No. 4440

 $2\frac{1}{2}$ "

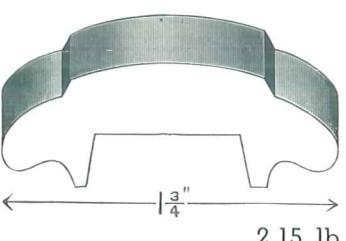
3.52 lb.

No. 4400

 $\frac{9}{16}$ "

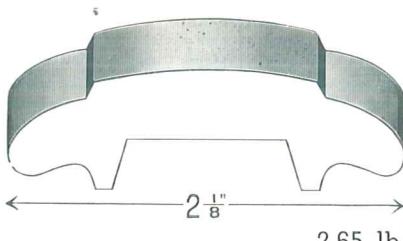
1.02 lb.

No. 4420

 $\frac{3}{4}$ "

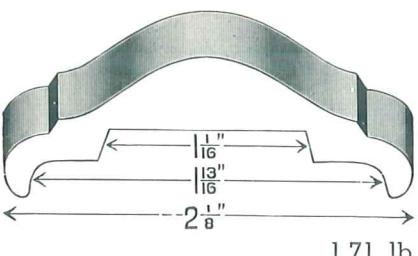
2.15 lb.

No. 4430

 $2\frac{1}{8}$ "

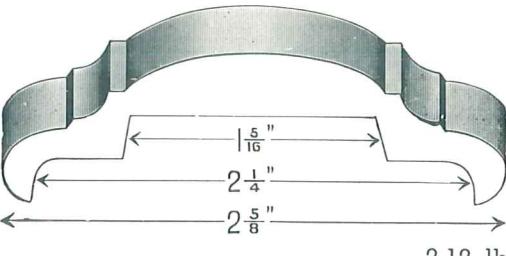
2.65 lb.

No. 4438

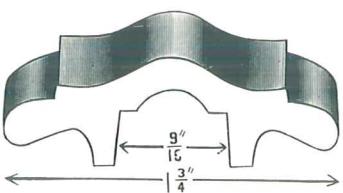


1.71 lb.

No. 4439



2.12 lb.



No. 4437

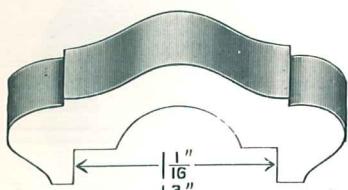
1.50 lb.

Handrail No. 4437 is especially designed for welding of $\frac{1}{2}$ " square balusters directly to its underside. It can also be used with $1\frac{1}{4}$ " Channel.

Also see page 33.

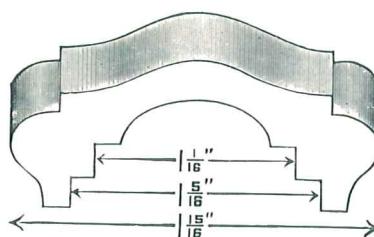
ROLLED STEEL HANDRAILS

No. 4429



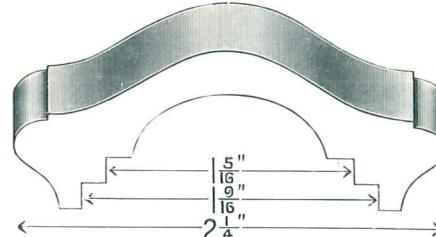
1.60 lb.

No. 4428



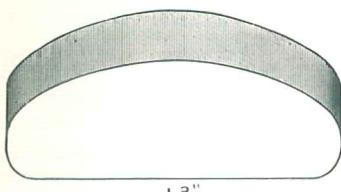
1.95 lb.

No. 4441



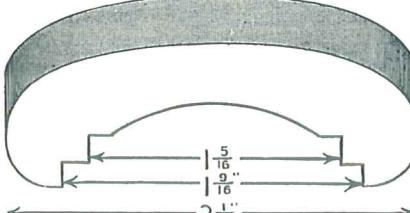
2.00 lb.

No. 4415



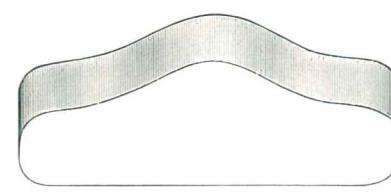
3.04 lb.

No. 4435



2.63 lb.

No. 4416

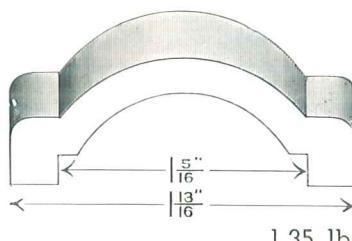


3.15 lb.

Handrails above are rolled from especially soft steel to facilitate bending.

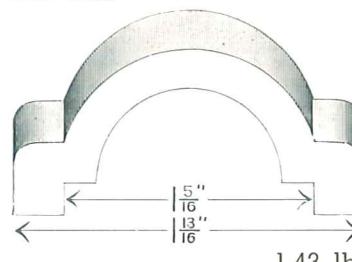
Handrails below are made of soft cold rolled steel having a smooth bright surface.

No. 4426



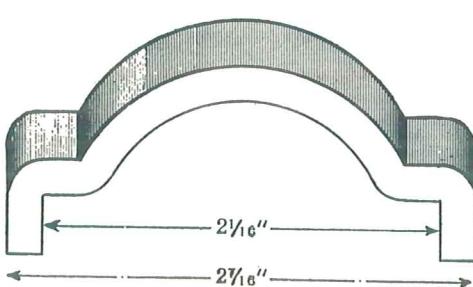
1.35 lb.

No. 4427



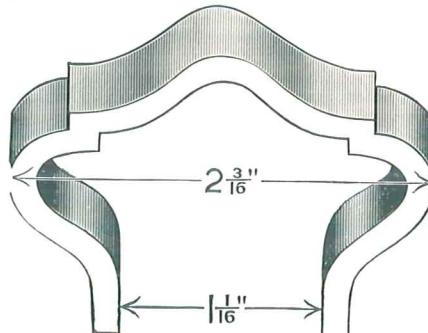
1.43 lb.

No. 4425



2.01 lb.

No. 4434



1.76 lb.

We carry in stock the following sizes of Hot Rolled Bars, for use in the manufacture of railings

L HOT ROLLED STEEL CHANNEL
 $1'' \times \frac{1}{2}'' \times \frac{1}{8}''$.80 lb.

S HOT ROLLED STEEL SQUARE BAR
 $\frac{1}{2}'' \times \frac{1}{2}''$.85 lb.

ALSO SEE PAGE 56 FOR STRUCTURAL SQUARE TUBING

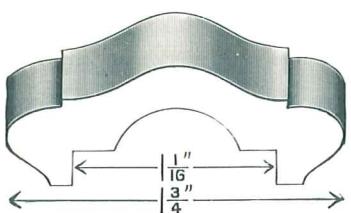
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ROLLED STEEL HANDRAILS WITH MATCHED FITTINGS

These Handrails are rolled from especially soft steel to facilitate bending.

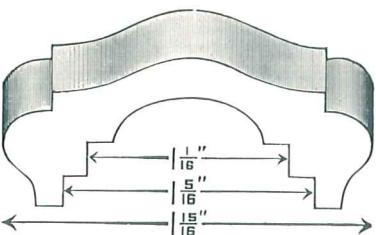
No. 4429



1.60 lb.

Fits over 1" flat bar
or channel

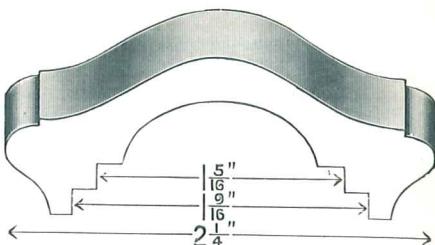
No. 4428



1.95 lb.

Fits over 1" or 1 1/4" flat
bar or channel

No. 4441



2.00 lb.

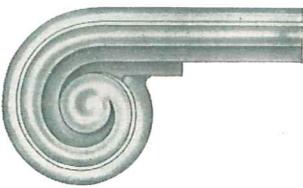
Fits over 1 1/4" or 1 1/2" flat
bar or channel

Handrail Fittings. Match the profiles of Handrails No. 4428, 4429 and 4441.

STRAIGHT LAMB'S TONGUE



VOLUTE

BEVEL
LAMB'S TONGUE

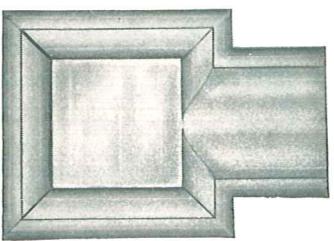
CORNER BEND



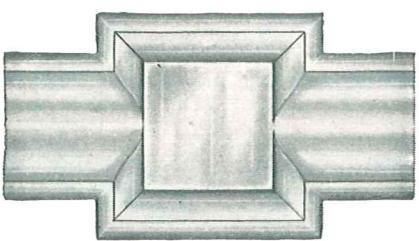
Radius 2 1/2" to
center of handrail

Handrail Fittings are made of malleable iron and can be welded to the end of the handrail.

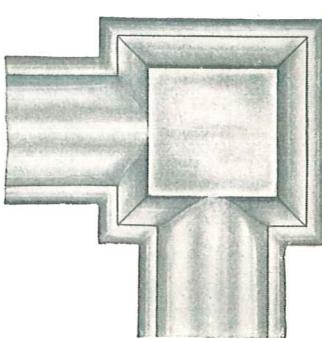
TERMINAL



CENTER PIECE "T"



CORNER PIECE "L"



Center Piece "T" and Corner Piece "L"
Furnished for Handrails No. 4428 and 4429 only.

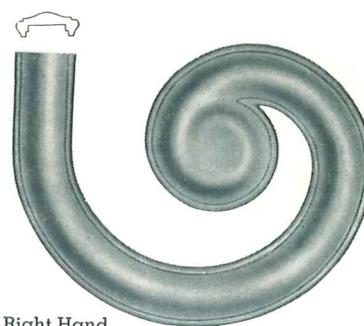
WHEN ORDERING, STATE NUMBER OF HANDRAIL AND TYPE OF FITTING.

HANDRAIL FITTINGS

FOR ROLLED STEEL HANDRAILS
Nos. 4428, 4429 and 4441



Left Hand



Right Hand

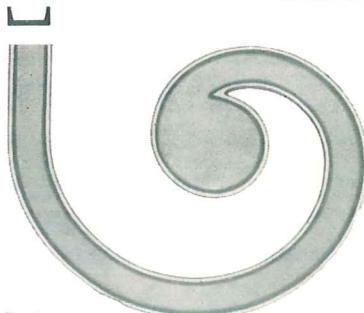
MOULDED LATERAL SCROLL

Moulded Lateral Scrolls are carried in stock to match the profile of Handrails 4428, 4429 and 4441. They are made of malleable iron, may be bent to conform to required bevel and welded to the end of handrail.

Full size details furnished upon request.



Left Hand



Right Hand

CHANNEL LATERAL SCROLL

Malleable Iron

Fit the underside of our moulded Lateral Scrolls.
Three sizes:

- 1" x 1/2" x 1/8" Channel for No. 4429
- 1 1/4" x 1/2" x 1/8" Channel for No. 4428
- 1 1/2" x 1/2" x 1/8" Channel for No. 4441

They also fit our Bronze and Aluminum Lateral Scrolls. May be punched, bent to conform to required bevel and welded.

JUNIOR LATERAL SCROLL



Left Hand



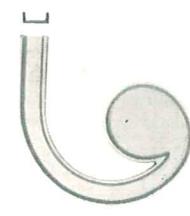
Right Hand

Furnished for
Handrail
No. 4429 only.
Malleable iron.

JUNIOR CHANNEL LATERAL SCROLL



Left Hand



Right Hand

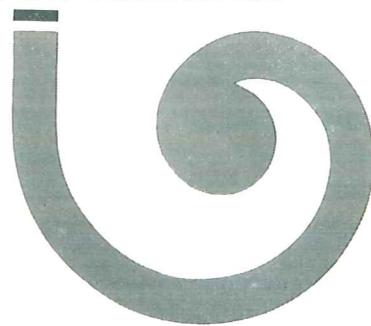
Malleable Iron
1" x 1/2" x 1/8"
Channel
Fits the under-
side of Junior
Lateral Scroll
No. 4429.

FLAT BAR LATERAL SCROLL

Fit the underside of Moulded Lateral Scrolls.
Three sizes: 1" x 3/8" Flat for No. 4429
1 1/4" x 3/8" Flat for No. 4428
1 1/2" x 3/8" Flat for No. 4441

Flat Bar Lateral
Scrolls are made of
rolled steel and will
not break. They can
be punched, bent
and welded. They
also fit our bronze
and aluminum Lat-
eral Scrolls.

Reversible for
Right and Left
Hand Rails.



HANDRAIL WALL FLANGE



No. 401

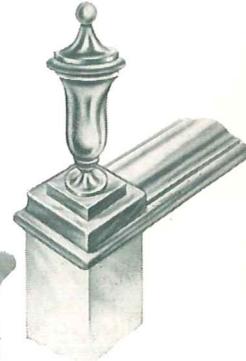
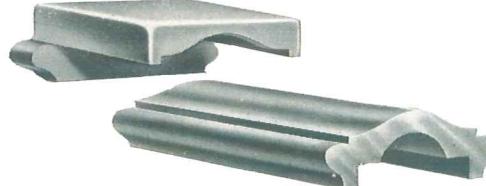
Made of heavy gauge
steel suitable for weld-
ing to underside of
channel or top rail.



END URN BASE

Furnished for Handrail No.

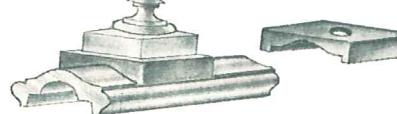
4429 only. Malleable iron.



The Urn Base terminates the handrail and
also provides a flat base for Urn or Ball
Finial. It may be welded to the handrail or
merely held in place by the stud which con-
nects the Finial to the Post. It is drilled for
3/8" bolt.

CENTER URN BASE

Malleable Iron



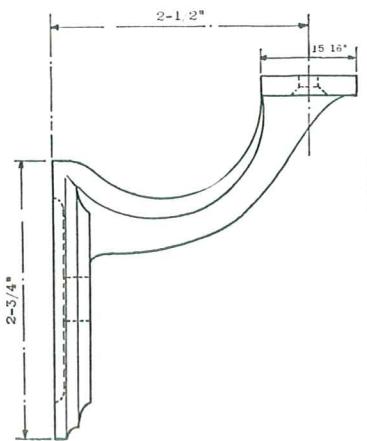
Fits Handrails
No. 4429 and No. 4437.

Drilled for 3/8" bolt.

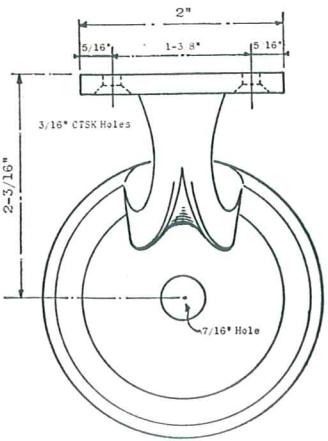
WHEN ORDERING, STATE NUMBER OF HANDRAIL AND TYPE OF FITTING

HANDRAIL WALL BRACKETS

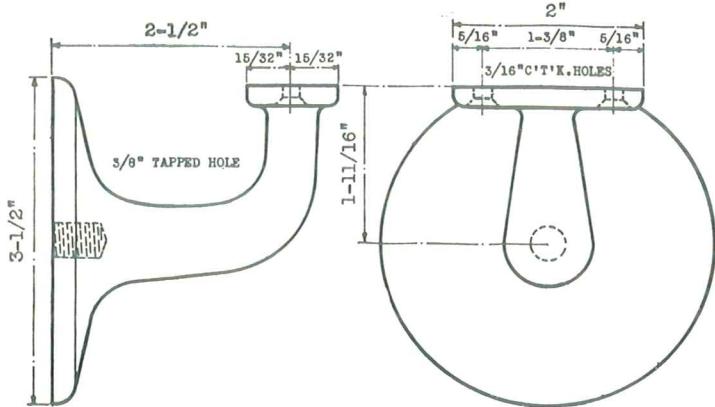
For Handrail Moulding or Flat Handrail,
details are about one half actual size



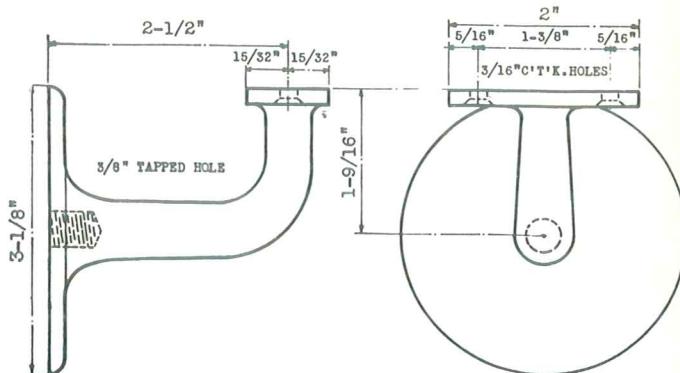
No. 379—Cast Iron
2½" from wall to center of rail



No. 381—Malleable Iron
2½" from wall to center of rail

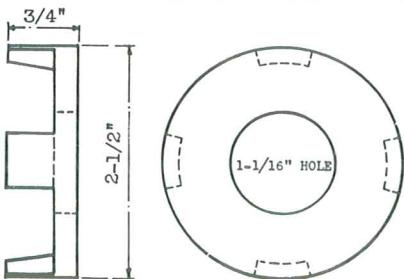


No. 373—Cast Iron
2½" from wall to center of rail

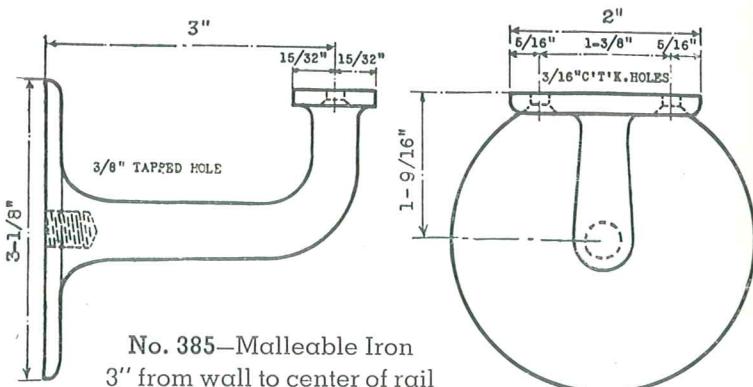


No. 377—Malleable Iron
2½" from wall to center of rail

HANDRAIL WALL BRACKET FILLER



No. 372—Cast Iron
Set in plaster wall before mounting
Handrail Bracket



No. 385—Malleable Iron
3" from wall to center of rail

Handrail Brackets shown here have Flat Top member for use with handrail moulding or flat handrail. All styles are also carried in stock with Curved Top member for Pipe Handrails. For details, see page 60.

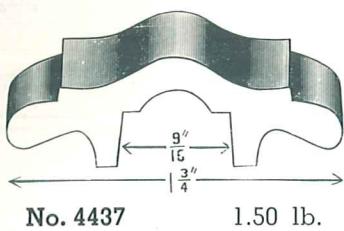
All Handrail Brackets are furnished with screw holes for fastening to wall and to handrail.

JULIUS BLUM & CO., INC. • CARLSTADT, N. J.

New Jersey Phone: GEneva 8-4600 • New York Phone: OXFord 5-2236 • Philadelphia Phone: MARket 7-7596

ROLLED STEEL HANDRAIL No. 4437

New Design For Easier Welded Railing Assembly



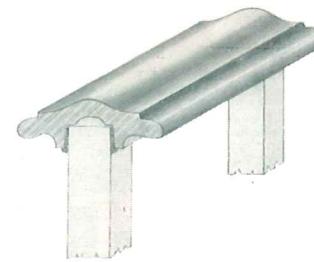
No. 4437

1.50 lb.

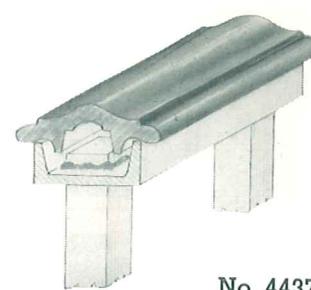
Handrail No. 4437 is intended for low cost railings, where balusters are welded directly to the top rail. The opening on the underside fits $\frac{1}{2}$ " square balusters. The legs on the underside serve to stiffen the moulding to prevent sagging. The top surface is identical to our moulding No. 4429.

No. 4437 may be used with a $1\frac{1}{4}$ " channel or without channel.

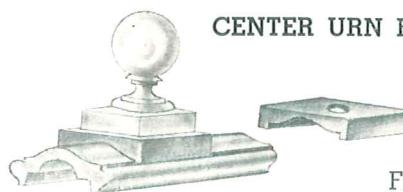
For rolled steel handrails with a complete range of matched fittings, see page 30.



No. 4437 with balusters
welded to handrail



No. 4437
with $1\frac{1}{4}$ " x $\frac{1}{2}$ " channel



CENTER URN BASE

Fits Handrails
Nos. 4429 and 4437

MOULDED LATERAL SCROLLS for Handrail No. 4437



Left Hand

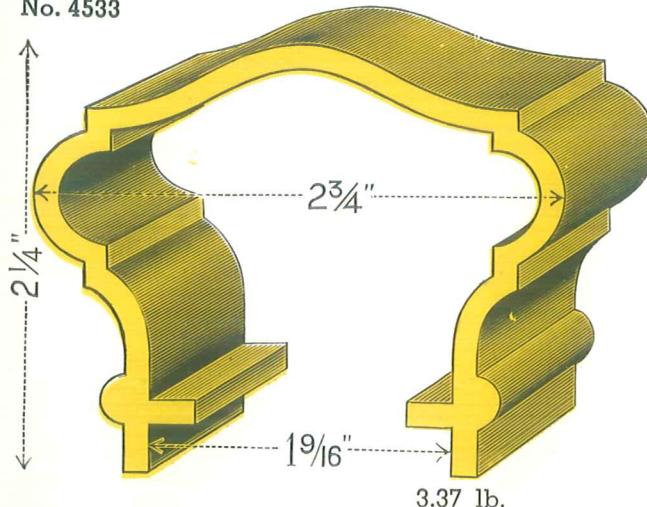
Match accurately the profile of the handrail. Made of malleable iron, they may be bent to conform to required bevel and welded to the end of the handrail.



Right Hand

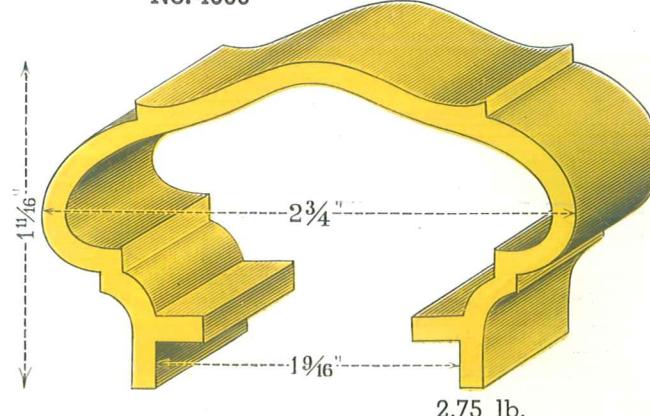
ARCHITECTURAL BRONZE HANDRAILS

No. 4533



Fittings are NOT furnished for handrails on this page.
For handrails with matched fittings, see page 35.

No. 4538



JULIUS BLUM & CO., INC. • CARLSTADT, N. J.

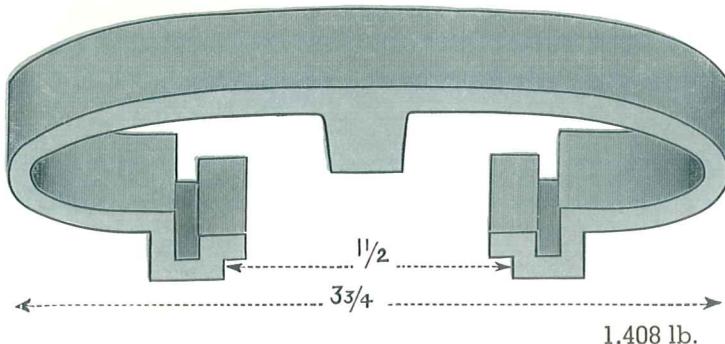
New Jersey Phone: GEneva 8-4600 • New York Phone: OXFord 5-2236 • Philadelphia Phone: MArket 7-7596

ARCHITECTURAL ALUMINUM HANDRAILS

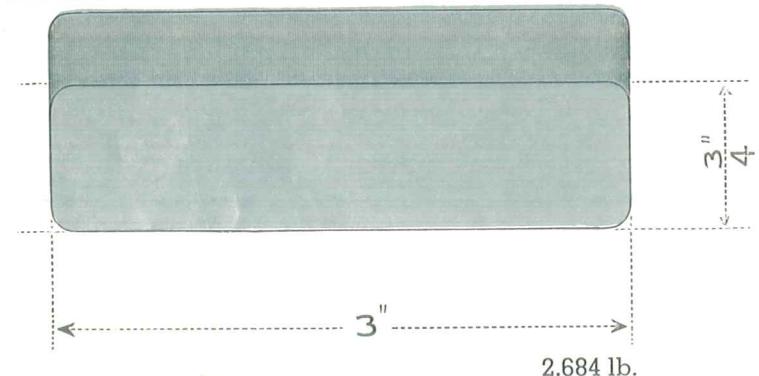
Alloy 6063 (63-S) Suitable for Alumiliting

Fittings are NOT furnished for Handrails on this page. For Handrails with matched fittings, see page 35.

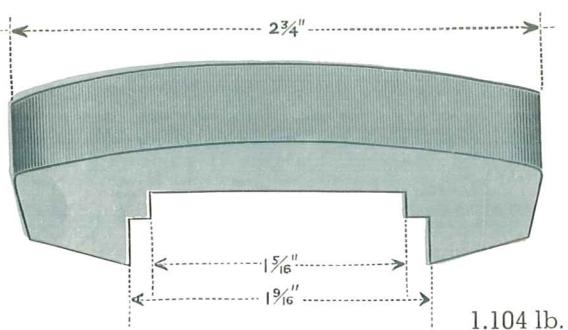
No. 6983 (Alcoa No. 16816)



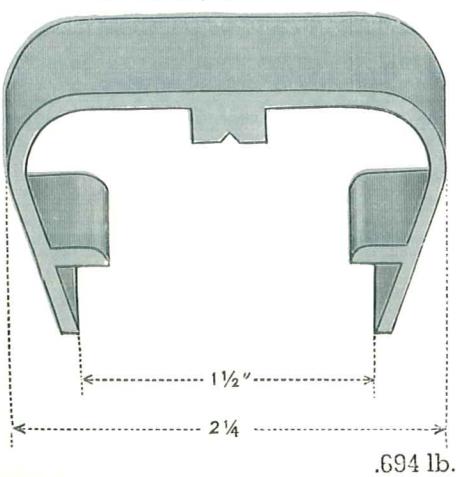
No. 6986



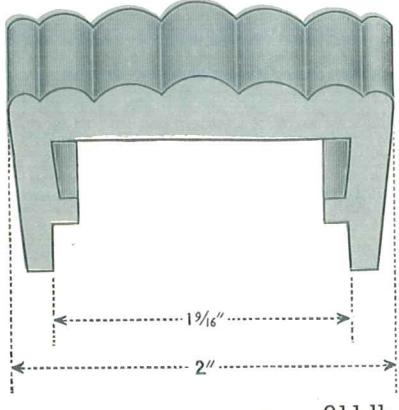
No. 6984



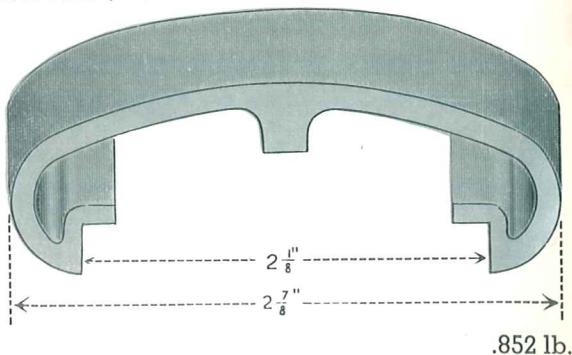
No. 6981 (Alcoa No. 25300)



No. 6980 (Alcoa No. 12729)

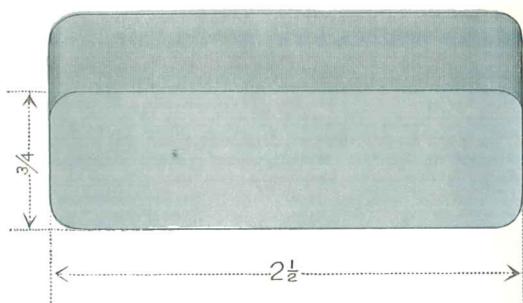


No. 6932 (Alcoa No. 16505)

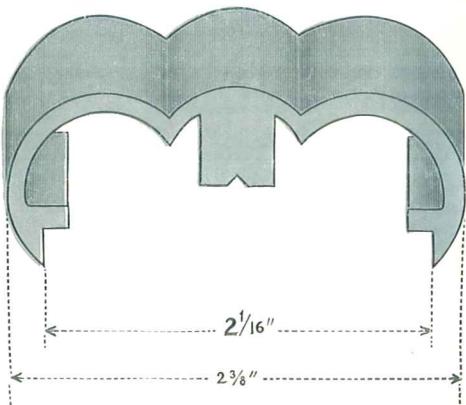


Alcoa Terminal End 16505-E carried in stock

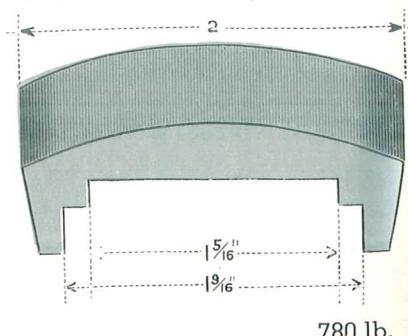
No. 6939



No. 6982 (Alcoa No. 23680)



No. 6985



HANDRAILS WITH MATCHED FITTINGS

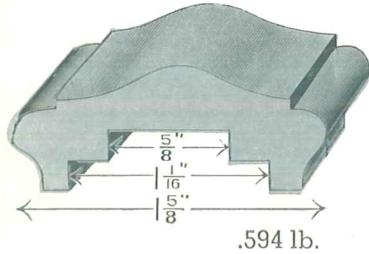
Polished Handrail Fittings are carried in stock to match the profiles of these Handrails. All Aluminum and Bronze Handrails are supplied in soft temper to facilitate bending. See page 36.

ARCHITECTURAL ALUMINUM

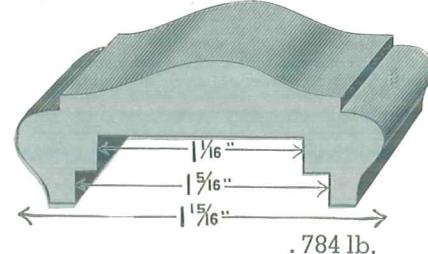
Alloy 6063 (63-S) suitable for Alumiliting

Handrails No. 6931, 6934 and 6930 below are especially suited for bending. Handrail No. 6929 at right has an outside profile identical to No. 6930. It is more economical for use on straight runs where bending is not required.

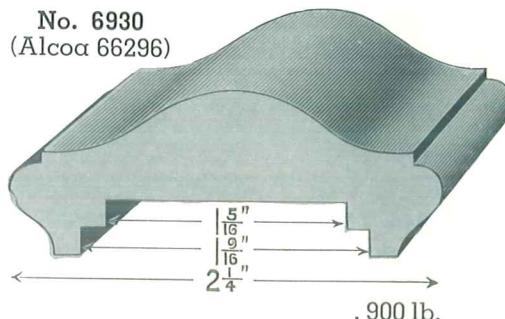
No. 6931 (Alcoa 66294)



No. 6934 (Alcoa 66295)

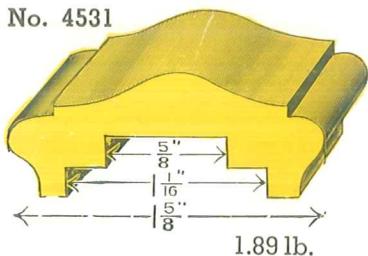


No. 6930
(Alcoa 66296)

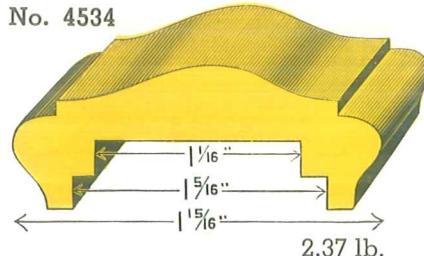


ARCHITECTURAL BRONZE

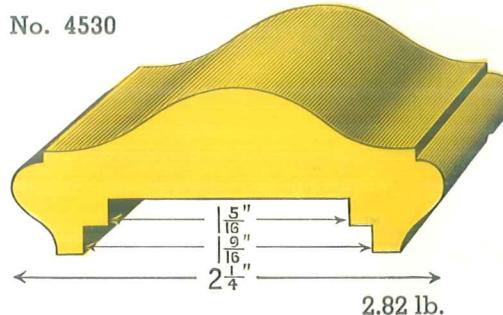
No. 4531



No. 4534

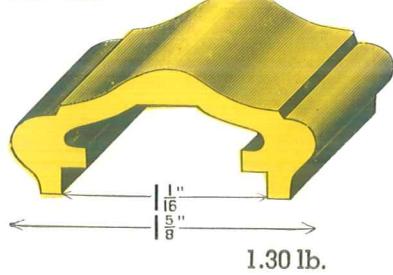


No. 4530

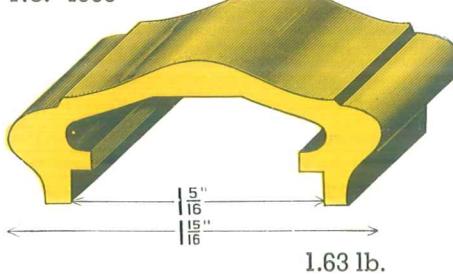


Handrails No. 4531, 4534 and 4530 above are especially suited for bending. Handrails No. 4537, 4536 and 4532 below have outside profiles identical to the corresponding heavier sections above. They are more economical for use in straight runs where bending is not required.

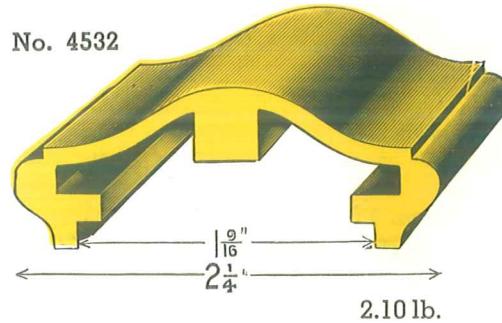
No. 4537



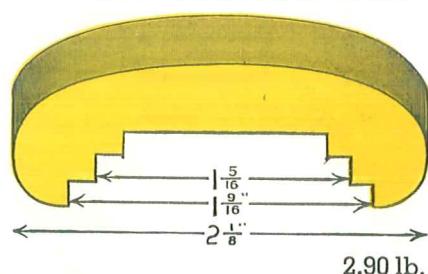
No. 4536



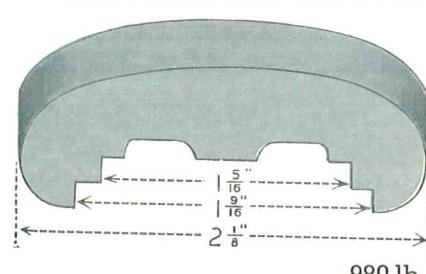
No. 4532



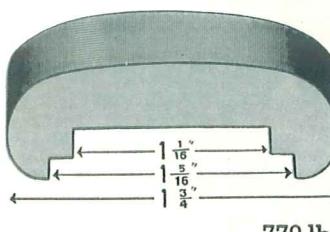
No. 4535 Architectural Bronze



No. 6935 Architectural Aluminum

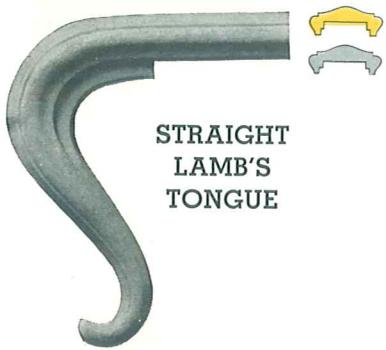


No. 6933 (Alcoa 20609)
Architectural Aluminum

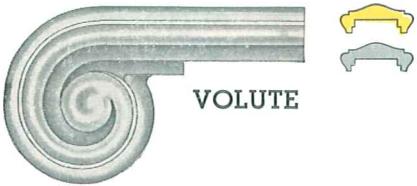


HANDRAIL FITTINGS

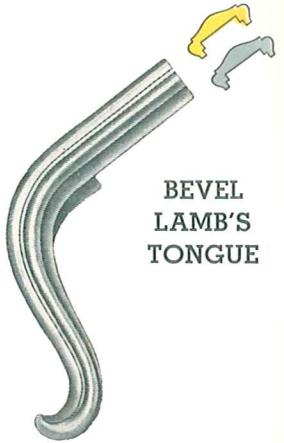
To Match Bronze and Aluminum Handrails
Shown on Page 35
SATIN FINISH



STRAIGHT
LAMB'S
TONGUE



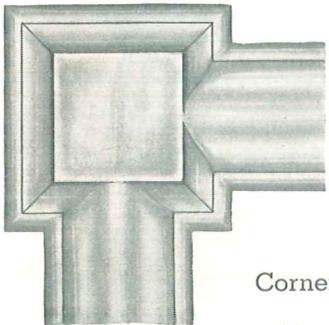
VOLUTE



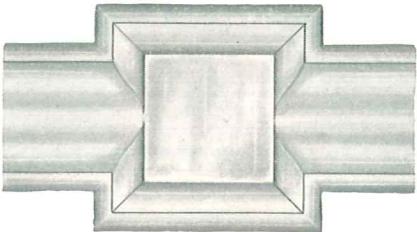
BEVEL
LAMB'S
TONGUE

For Handrail Wall Brackets, see page 37

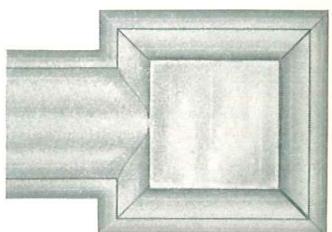
CORNER PIECE "L"



CENTER PIECE "T"



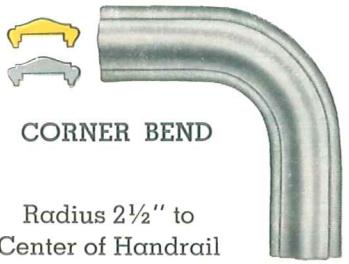
TERMINAL



Corner Piece, Center Piece and Terminal are NOT furnished for Aluminum Handrail No. 6933

LATERAL SCROLLS

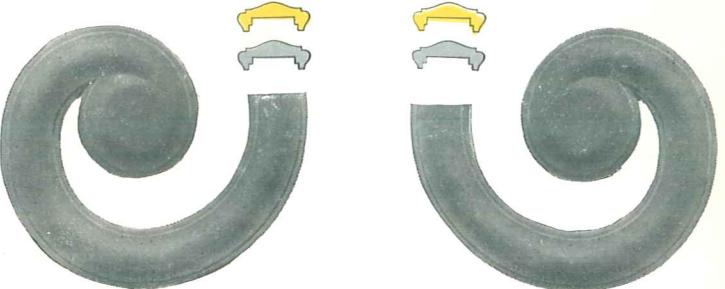
Full size details furnished upon request.



CORNER BEND

Radius 2½" to
Center of Handrail

For Steel Channel
and Flat Bar Scrolls
to fit underside of
Bronze and Alumi-
num Lateral Scrolls,
see page 31.



Left Hand

Right Hand

Handrail Fittings are carried in stock with satin finish.

They match the color and profile of Handrails shown on adjoining page.

Aluminum Fittings are made of Alloy 214, for use with Extruded Alloy 6063. They are suitable for Alumiliting.

WHEN ORDERING, STATE NUMBER OF HANDRAIL AND TYPE OF FITTING

A COMPLETE RANGE OF ALUMINUM AND BRONZE BARS AND SHAPES
CARRIED IN STOCK



SQUARES



FLATS



ROUNDS



CHANNELS



ANGLES



TEES



SQUARE AND RECTANGULAR
TUBING



PIPE

For a Listing of Stock sizes, see pages 10, 11, and 12.

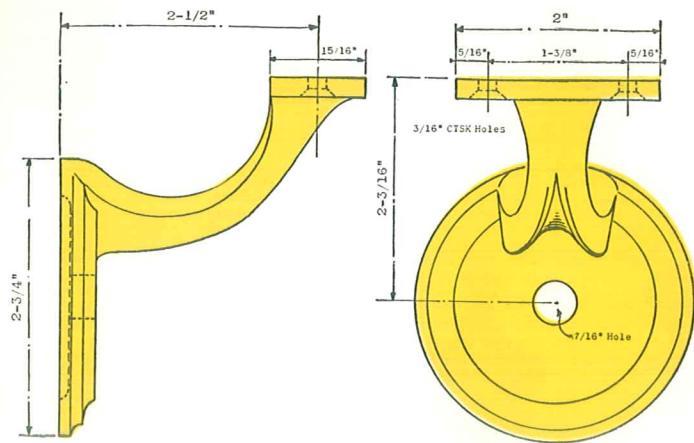
ALL Aluminum Items are Alloy 6063. ALL Bronze Items are Extruded Architectural Bronze.
NO CHANCE OF ACCIDENTAL MISMATCHING OF ALLOYS OR COLORS

ALUMINUM AND BRONZE HANDRAIL BRACKETS

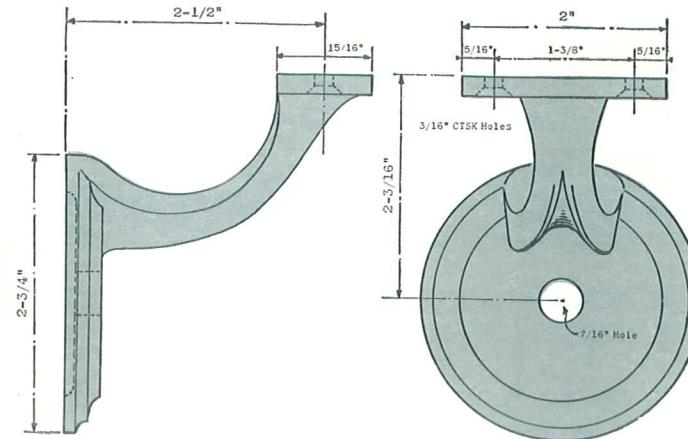
37

For Handrail Moulding or Flat Handrail

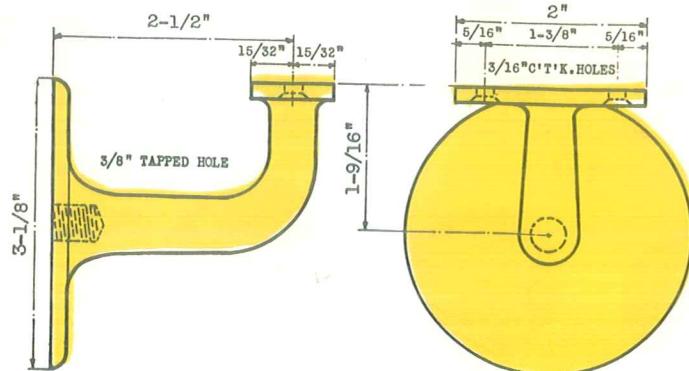
Also carried in stock with curved top member for pipe handrails. See pages 61, 62, 63.



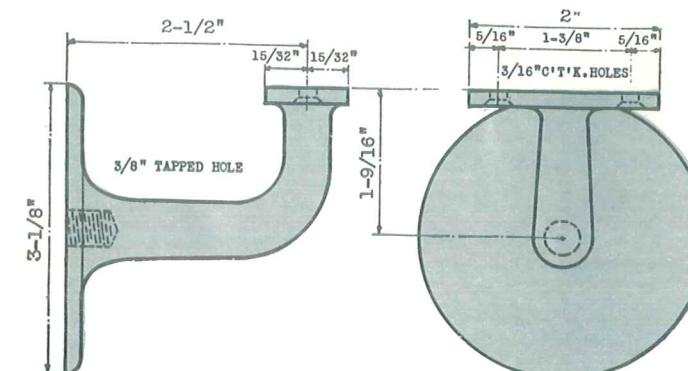
No. 387—Bronze, Satin Finish



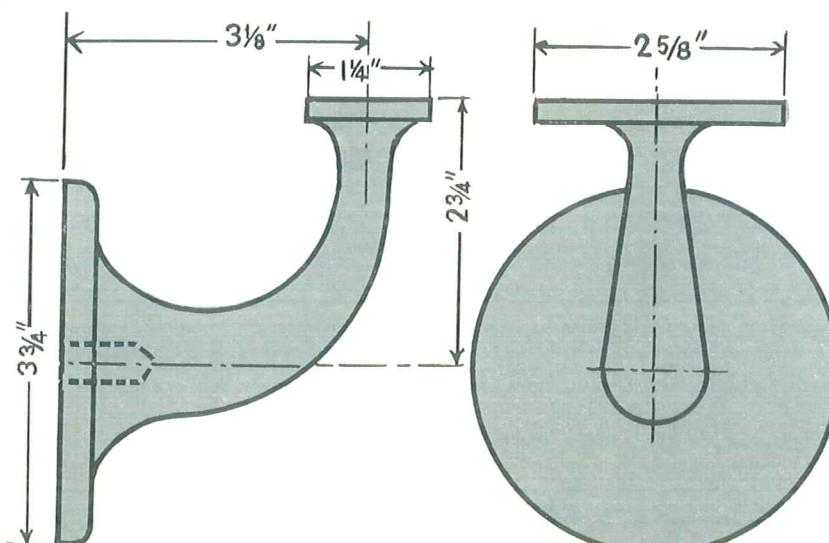
No. 383—Aluminum, Satin Finish



No. 370—Bronze, Satin Finish

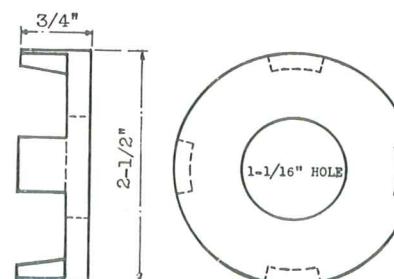


No. 371—Aluminum, Satin Finish



Alcoa No. 303-B—Aluminum, Unpolished For Handrails Over 2 1/4" wide.

WALL BRACKET FILLER



No. 372—Cast Iron

Aluminum Handrail Brackets are made of alloy 214, for use with extruded Alloy 6063. They are suitable for aluminizing. Bronze Handrail Brackets match the color of Architectural Bronze Handrails.

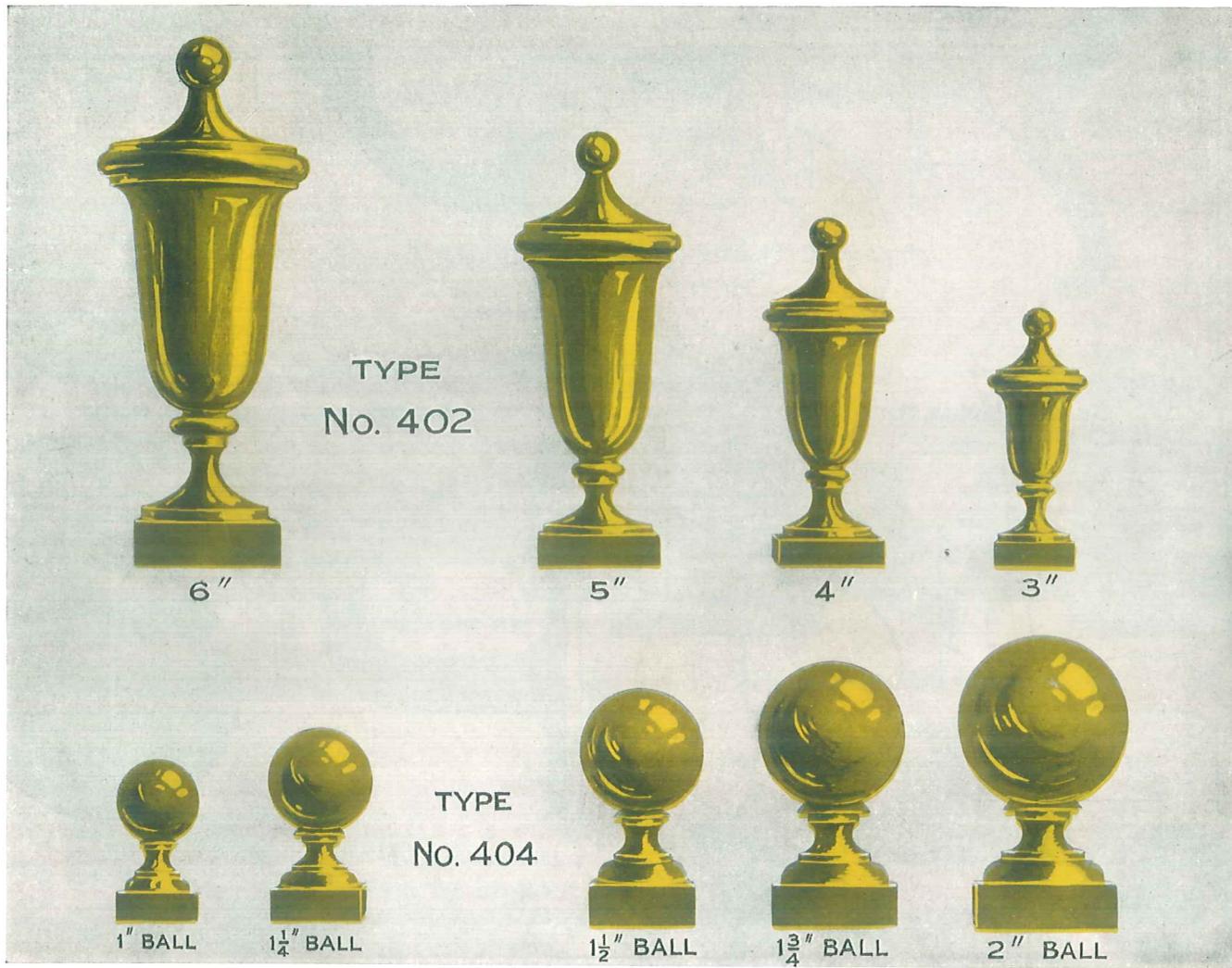
JULIUS BLUM & CO., INC. • CARLSTADT, N. J.

New Jersey Phone: GENeva 8-4600 • New York Phone: OXFORD 5-2236 • Philadelphia Phone: MARKet 7-7596

POLISHED BRONZE URNS AND BALL FINIALS

Carried in stock with Round or Square Base. — Base has $\frac{3}{8}$ " Tapped Hole

Machined from solid stock — Free from imperfections — No Breakage



DIMENSIONS

No. 402 — Bronze			No. 404 — Bronze		
Height	Sq. Base	Rd. Base	Dia. Ball	Height	Sq. Base
3"	1"	1"	1"	1 3/4"	1"
4"	1 1/4"	1 1/4"	1 1/4"	2 3/8"	1 1/8"
5"	1 1/2"	1 1/2"	1 1/2"	2 3/4"	1 1/4"
6"	1 3/4"	Not furnished	1 3/4"	3 1/8"	1 1/2"
			2"	3 1/2"	1 3/4"

Illustrations are about one half actual size

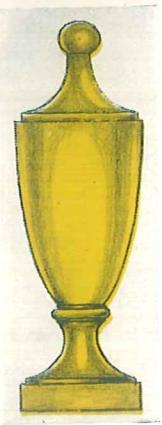
BRONZE AND ALUMINUM URNS AND BALL FINIALS

39

Carried in Stock with Round and Square Base

BASE HAS $\frac{3}{8}$ " TAPPED HOLE

POLISHED BRONZE



No. 406



No. 405



No. 407



No. 403

Height
Round Base
Square Base

No. 405
3½"
 $\frac{7}{8}$ "
1"

No. 406
4"
1½"
1¼"

DIMENSIONS

No. 407
3"
 $\frac{7}{8}$ "
1"

No. 403-3"
3"
1"
1"

No. 403-4"
4"
1½"
1½"

Square bases of Urns No. 405 and No. 407 are unattached and fit over round base. All other finials are in one piece.



No. 432—4" high



No. 432—3" high



No. 437—Round
base only



No. 434—1¼" ball



No. 434—1½" ball

DIMENSIONS ARE THE SAME AS BRONZE FINIALS OF CORRESPONDING SIZES

UNPOLISHED URNS

ATTRACTIVE AND LOW IN COST



No. 1406—Bronze



No. 1405—Bronze



No. 1407—Bronze



No. 1437—Aluminum
Round base only

DIMENSIONS ARE THE SAME
AS POLISHED URNS OF
CORRESPONDING SIZES.

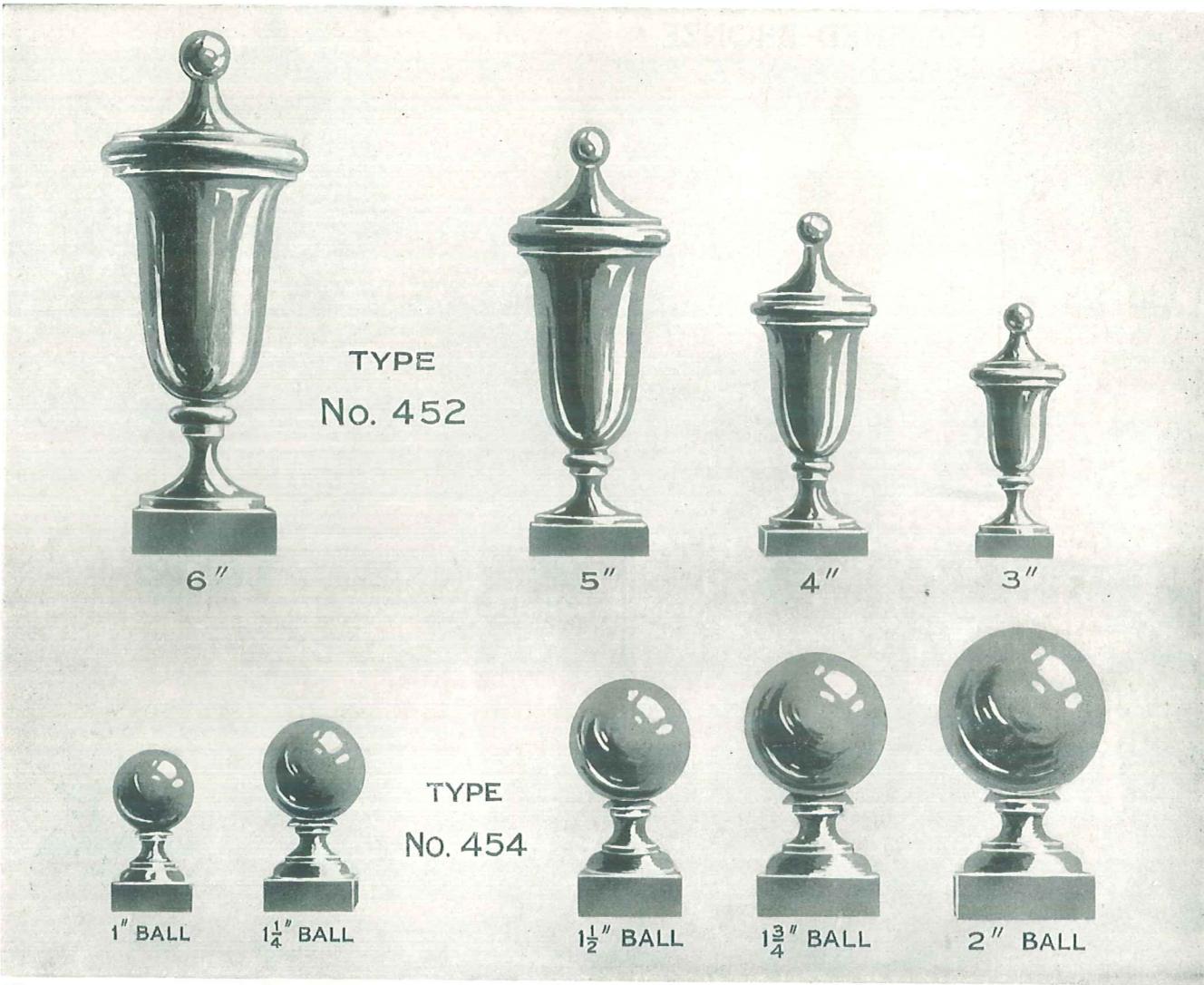
JULIUS BLUM & CO., INC. • CARLSTADT, N. J.

New Jersey Phone: GEneva 8-4600 • New York Phone: OXFORD 5-2236 • Philadelphia Phone: MArket 7-7596

URNS AND BALL FINIALS

MALLEABLE IRON

Clean Appearance — No Breakage — Base has $\frac{3}{8}$ " Tapped Hole



Illustrations are one half actual size.

DIMENSIONS

No. 452—Malleable Iron
Height Rd. Base Sq. Base

3"	1"	1"
4"	—	1 1/4"
5"	—	1 1/2"
6"	—	1 3/4"

No. 454—Malleable Iron
Dia. Ball Height Rd. Base Sq. Base

1"	1 3/4"	7/8"**	7/8"
1 1/4"	2 3/8"	—	1 1/8"
1 1/2"	2 3/4"	—	1 1/4"
1 3/4"	3"	—	1 1/2"
2"	3 3/8"	—	1 3/4"

*No. 452 Urn 3" high with round base } These are turned steel and
No. 454 Finial 1" ball with round base } have a smooth bright finish.

All other sizes are made of high grade malleable iron.

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ORNAMENTAL BALUSTER COLLARS

Unbreakable Malleable Iron



No. 546 — $\frac{1}{2}$ " Sq. Hole
No. 547 — $\frac{5}{8}$ " Sq. Hole
Height — $7\frac{3}{4}$ "
Width — 3"



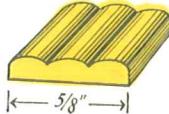
No. 544 — $\frac{1}{2}$ " Sq. Hole
No. 545 — $\frac{5}{8}$ " Sq. Hole
Height — $4\frac{3}{4}$ "
Width — 3"



No.	Hole	Height	Width
543	$\frac{1}{2}$ " sq.	$4\frac{3}{4}$ "	$4\frac{3}{8}$ "
535	$\frac{5}{8}$ " sq.	$3\frac{3}{4}$ "	$3\frac{1}{2}$ "

ORNAMENTAL BALUSTER COLLARS ARE INEXPENSIVE AND HIGHLY DECORATIVE. USED SINGLY OR IN COMBINATIONS.
EASILY APPLIED, CAN BE FASTENED BY SCREW, TACK WELD OR CALKING
MALLEABLE IRON — NO BREAKAGE

No. 6108

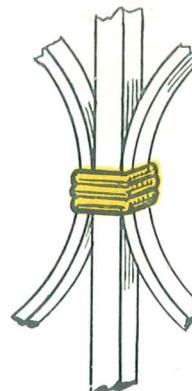


.263 lb.

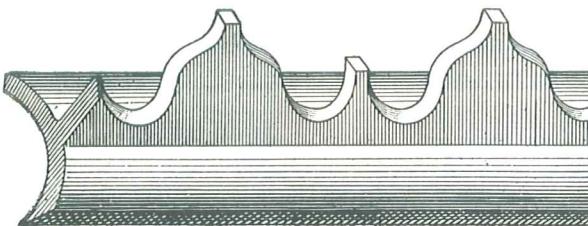
Bronze Tie Bands used with wrought iron scroll work improve the appearance of railings, grilles, gates, etc.
Section No. 6108 is made of a special alloy, easy to bend.

BRONZE TIE BAND STRIP

Detail showing the use of Bronze Tie Band Strip No. 6108.

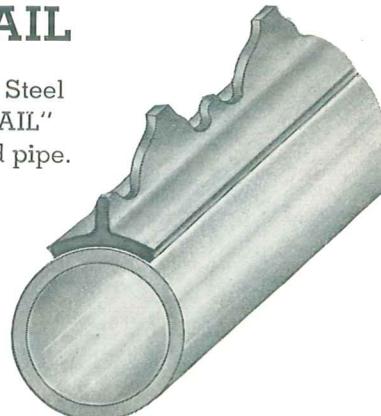


ROLLED STEEL LOAFERS RAIL



Carried in stock in 20 ft. lengths. Will fit over pipe or on flat surfaces. Affords effective protection against lounging on fences, railings, store fronts, etc. STRONGER AND BETTER IN APPEARANCE THAN CAST IRON.

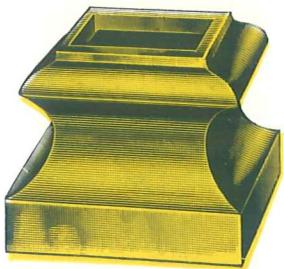
Detail of Rolled Steel "LOAFERS' RAIL" applied to round pipe.



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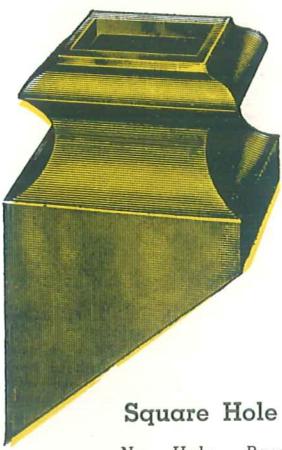
COLLARS-BASES-FLANGES

BRONZE - SATIN FINISH



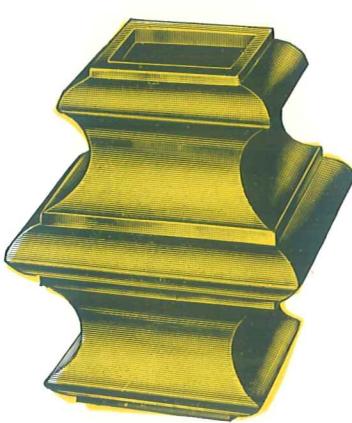
Square Hole

No.	Hole	Base
252	1/2"	1 1/4"
253	5/8"	1 1/4"
254	3/4"	1 1/8"
267	1"	1 1/4"
268	1 1/4"	2 3/4"
269	1 1/2"	3"



Square Hole

No.	Hole	Base
262	1/2"	1 1/4"
263	5/8"	1 1/4"
264	3/4"	1 1/8"



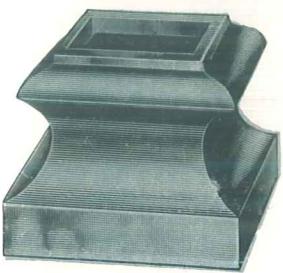
Square Hole

No. 265	1/2" Hole
No. 266	5/8" Hole



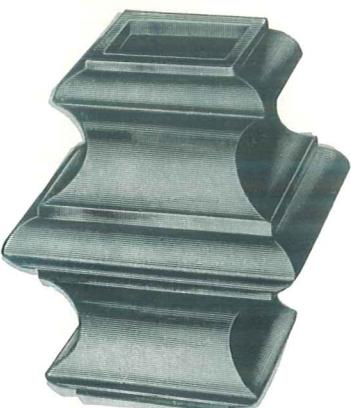
Round Hole

No.	Hole	Base
259	3/8"	1 1/4"
260	1/2"	1 1/4"
261	5/8"	1 1/8"

ALUMINUM-Satin Finish

Square Hole

No.	Hole	Base
752	1/2"	1 1/4"
753	5/8"	1 1/4"
754	3/4"	1 1/8"
767	1"	1 1/4"
768	1 1/4"	2 3/4"
769	1 1/2"	3"



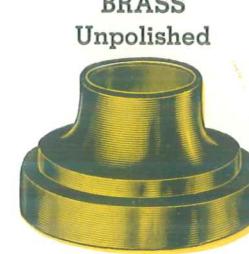
Square Hole

No. 765	1/2" Hole
No. 766	5/8" Hole

**BRONZE
Satin Finish**

Round Hole

No.	Hole	Base
255	3/8"	1 1/4"
256	1/2"	1 1/4"
257	5/8"	1 1/8"
249	1"	2 1/2"

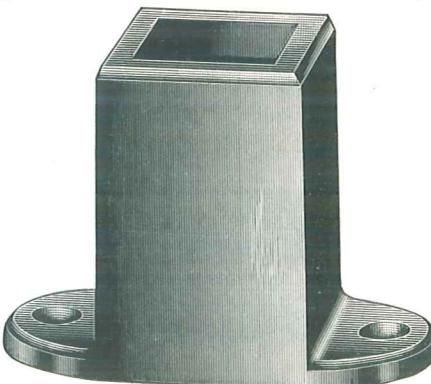


Round Base

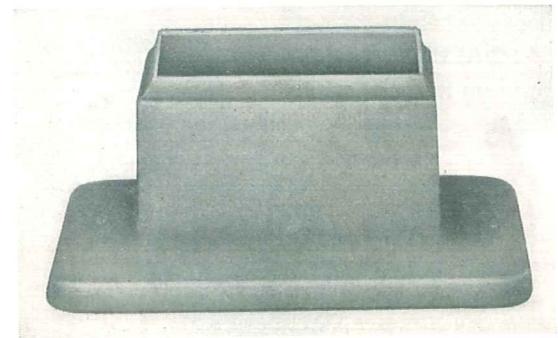
No. 80	1/2" Round Hole
--------	-----------------

**SQUARE FLANGES
CAST IRON**

For channels, bars or tubing



No. 615	3/4" Square Hole
No. 616	1" Square Hole

SQUARE TUBE SOCKETS-CAST IRON

Square Hole	Base	Height
1"	3"	1 1/8"
1 1/4"	3 1/4"	1 1/2"
1 1/2"	3 1/2"	1 3/4"
2"	4"	1 3/4"
2 1/2"	4 1/2"	1 7/8"
3"	5 3/16"	2 3/8"

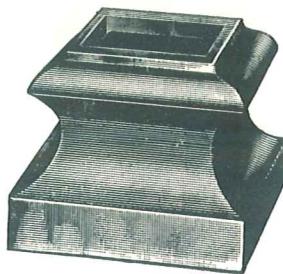
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BALUSTER COLLARS and BASES

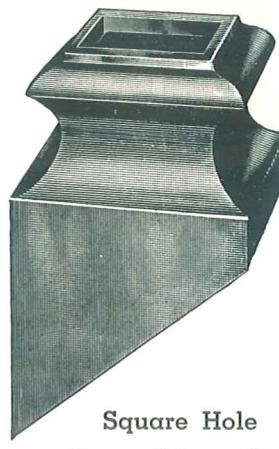
43

CAST IRON



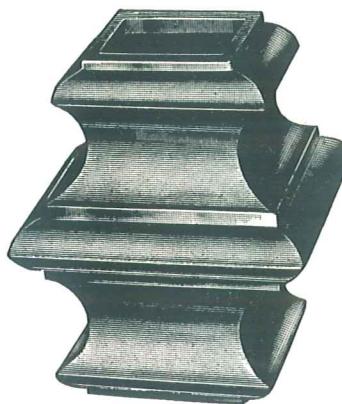
Square Hole

No.	Hole	Base
352	1/2"	1 1/4"
353	5/8"	1 1/4"
354	3/4"	1 3/8"
367	1"	1 3/4"
368	1 1/4"	2 3/4"
369	1 1/2"	3"



Square Hole

No.	Hole	Base
362	1/2"	1 1/4"
363	5/8"	1 1/4"
364	3/4"	1 3/8"



Square Hole

No. 365	1/2" Hole
No. 366	5/8" Hole
No. 348	3/4" Hole

STEEL

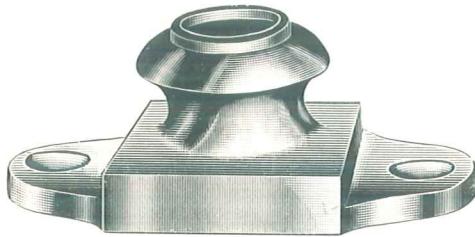


Round Collar
No. 72 1/2" Round Hole



Round Collar
No. 73 3/8" Round Hole
No. 74 5/8" Round Hole

MALLEABLE IRON



No. 395 3/8" Round Hole
No. 396 1/2" Round Hole
No. 397 5/8" Round Hole



Round Hole

No.	Hole	Base
359	3/8"	1 1/4"
360	1/2"	1 1/4"
361	5/8"	1 3/8"



Round Hole

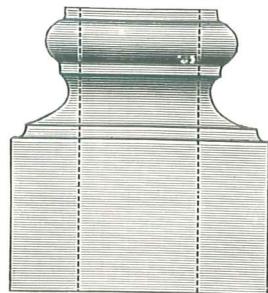
No.	Hole	Base
355	3/8"	1 1/4"
356	1/2"	1 1/4"
357	5/8"	1 3/8"
349	1"	2 1/2"

STEEL →
Round Base

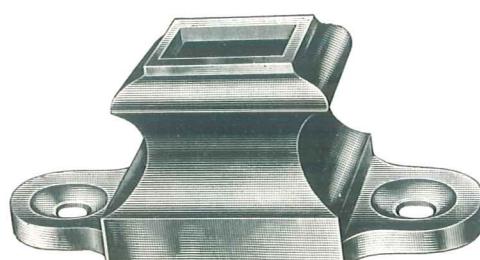


No. 75 3/8" Round Hole
No. 77 1/2" Round Hole

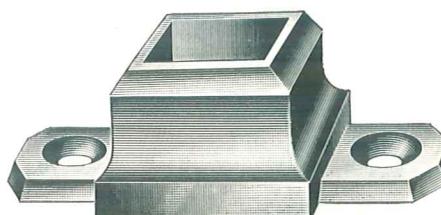
CAST IRON



No. 345 1/2" Square Hole
No. 346 5/8" Square Hole
No. 347 3/4" Square Hole



No. 390 1/2" Square Hole
No. 391 5/8" Square Hole
No. 393 1" Square Hole



No. 350 1/2" Square Hole
No. 351 5/8" Square Hole
No. 398 3/4" Square Hole
No. 399 1" Square Hole

MALLEABLE IRON

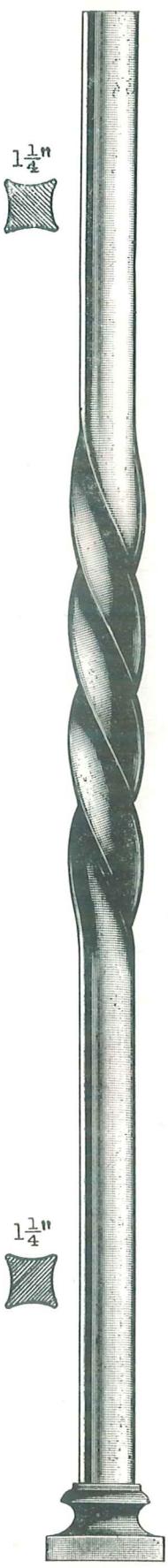
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FORGED STARTING POSTS & BALUSTER BARS

LENGTH: 3'-0"

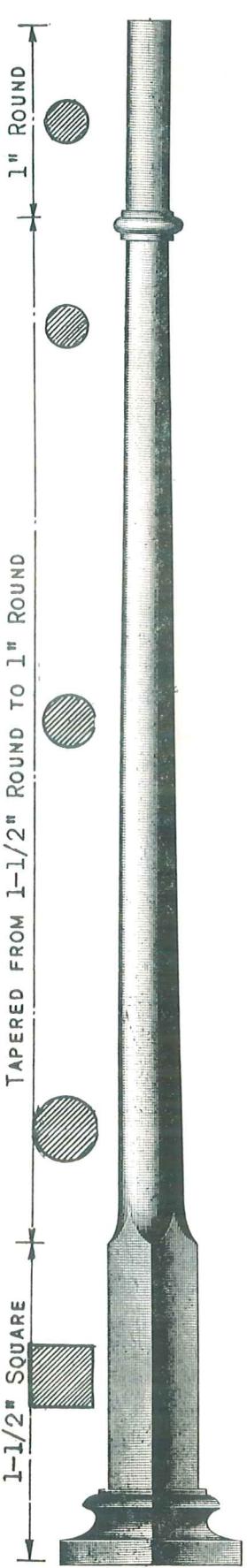
SCALE: 3" = 1'-0"



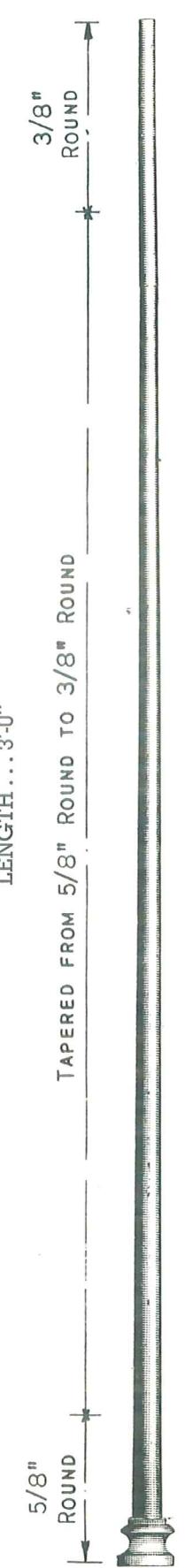
No. 332



No. 343



No. 331



No. 329



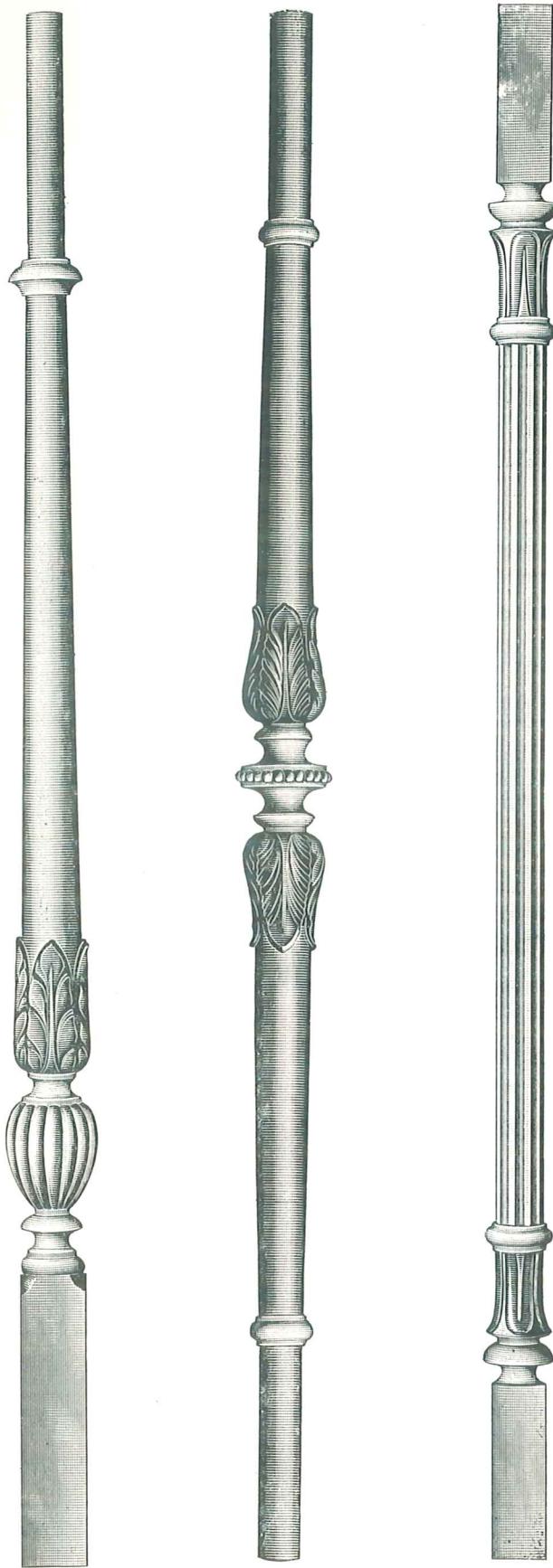
No. 330

BASES SHOWN ARE NOT INCLUDED. CAN BE FURNISHED IN
CAST IRON, POLISHED BRONZE OR ALUMINUM

ORNAMENTAL STARTING POSTS

SCALE 3" = 1'-0"

These Posts are designed to allow for adjustment to varying railing heights. They may be made shorter without interference with the ornamentation.



No. 333

No. 334

No. 335

DIMENSIONS

	Length	Lower End	Upper End
No. 333	3'-0"	1½" Sq.	¾" Rd.
No. 334	3'-0"	1" Rd.	1" Rd.
No. 335	3'-0"	1¼" Sq.	1¼" Sq.

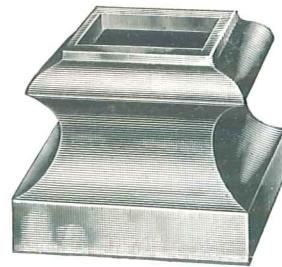
Base Collars for Starting Posts

ROUND HOLE



No. 349 Cast Iron }
No. 249 Polished Bronze }
1" Hole—2½" sq. base
Fits Post No. 334

SQUARE HOLE



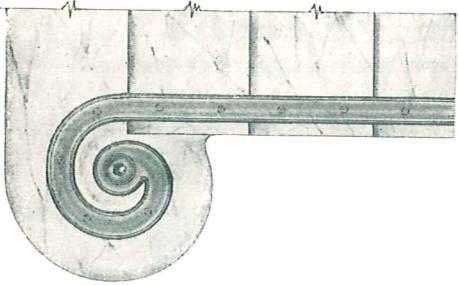
No. 368 Cast Iron }
No. 268 Polished Bronze }
No. 768 Polished Aluminum }
1¼" Hole—2¾" sq. base
Fits Posts
No. 335, 332 and 343

No. 369 Cast Iron }
No. 269 Polished Bronze }
No. 769 Polished Aluminum }
1½" Hole—3" sq. base
Fits Posts No. 333 and 331

For other Collars and Bases, see pages 42 and 43

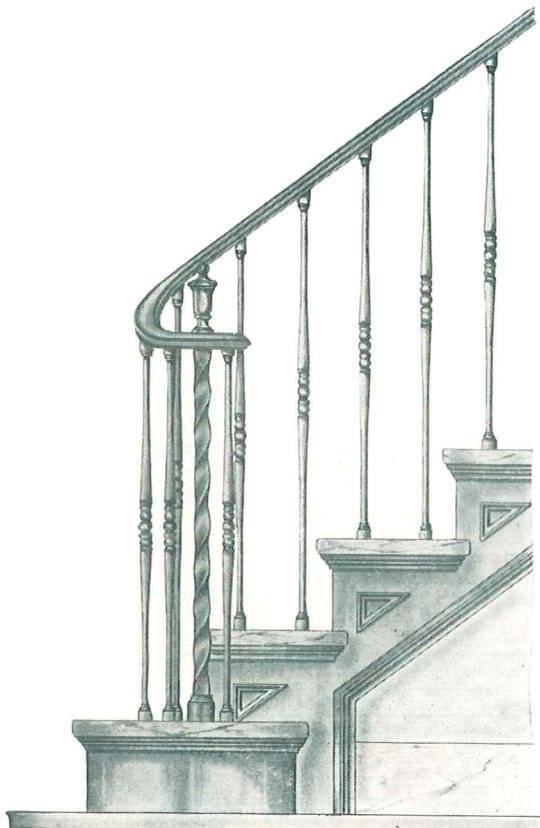
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Hollow Tapered Steel Spindles

Length: 3'-0"



Detail of Railing showing application of Hollow tapered Steel Spindles. They may also be used for grilles, doors, window guards, etc., also for lamps and, cut in half, as chair and table legs.

On account of their EXTREMELY LOW COST, HOLLOW STEEL SPINDLES can be used for work where price is the determining factor.

For high class work, we recommend forged spindles and Balusters as shown on Pages 47, 48 and 49.

HOLLOW STEEL SPINDLES may be easily polished and plated. They are strong, but light in weight.



No. 300
1 1/4" in center
tapering to
3/4" on ends



No. 310
1" in center
tapering to
5/8" on ends



No. 320
3/4" in center
tapering to
3/8" on ends

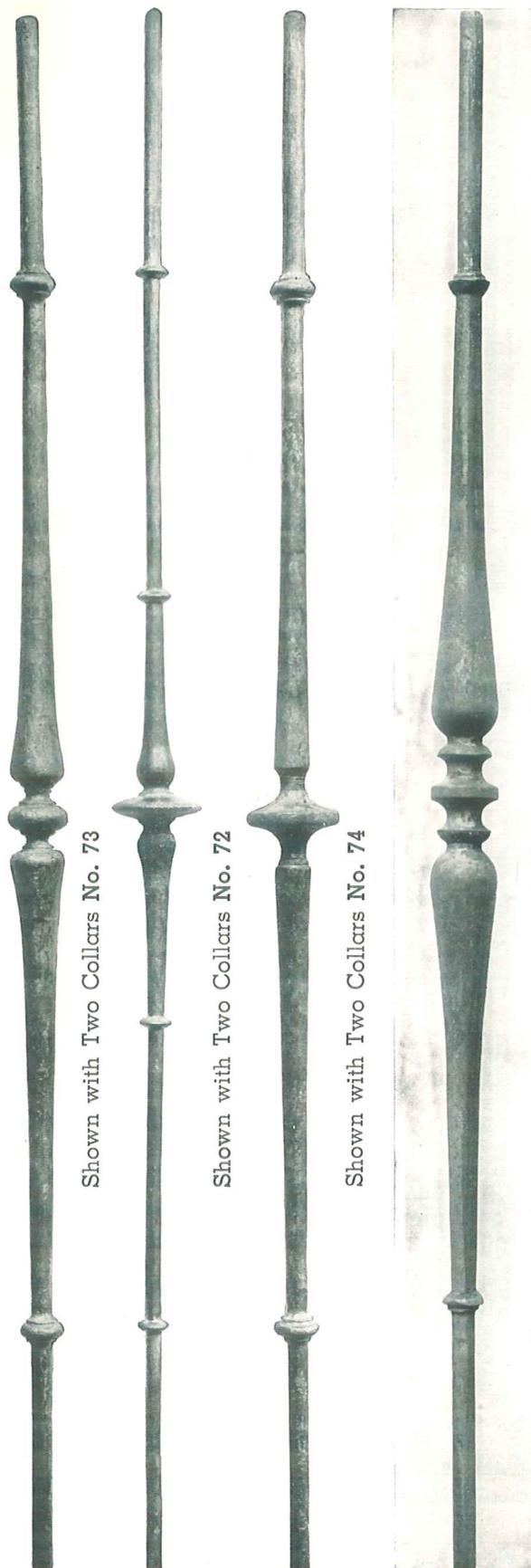
FORGED SPINDLES

Spindles are hammer forged from solid stock.
Length 36".

Collars shown near the ends of Forged Spindles are furnished loose for alignment to required position when spindles are used on stair treads.

Collars and Bases for Forged Spindles Round Holes

No. 325 No. 326 No. 327
 $\frac{1}{2}$ " round $\frac{3}{8}$ " round $\frac{1}{2}$ " round
 at ends at ends at ends



Spindles are shown ONE QUARTER actual size

Turned Steel



No. 72— $\frac{1}{2}$ " hole

2 collars No. 72 included
with each spindle No.
325 or 327.

Base Collar



Turned Steel

No. 75	$\frac{3}{8}$ " hole
No. 77	$\frac{1}{2}$ " hole

Bronze

No. 80	$\frac{1}{2}$ " hole
--------	----------------------



No. 73— $\frac{3}{8}$ " hole
No. 74— $\frac{5}{8}$ " hole

2 collars No. 73 included
with each spindle No.
326.

Base Collar



Bevel Base Collar

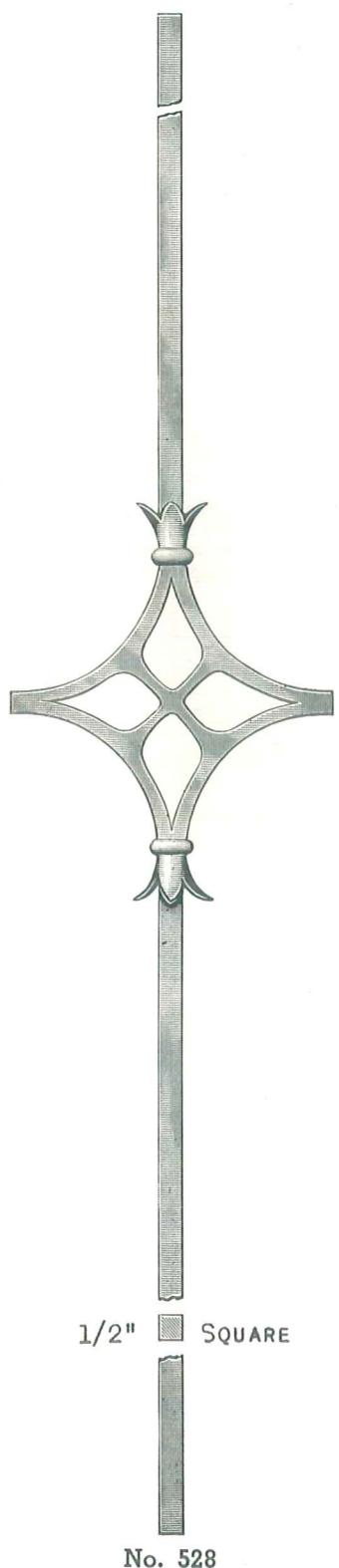


Bronze No.	Iron No.	Hole	Width	Bronze No.	Iron No.	Hole	Width
255	355	$\frac{3}{8}$ "	$1\frac{1}{4}$ "	259	359	$\frac{3}{8}$ "	$1\frac{1}{4}$ "
256	356	$\frac{1}{2}$ "	$1\frac{1}{4}$ "	260	360	$\frac{1}{2}$ "	$1\frac{1}{4}$ "
257	357	$\frac{5}{8}$ "	$1\frac{3}{8}$ "	261	361	$\frac{5}{8}$ "	$1\frac{3}{8}$ "

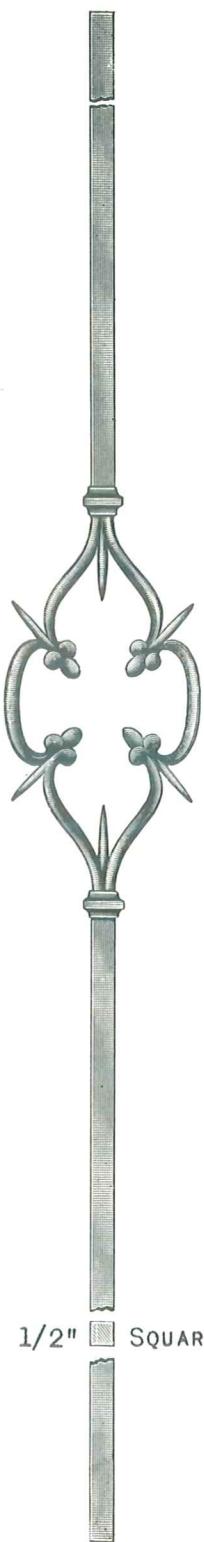
For complete listing of Collars and Bases, see pages 42 and 43.

ORNAMENTAL BALUSTER BARS

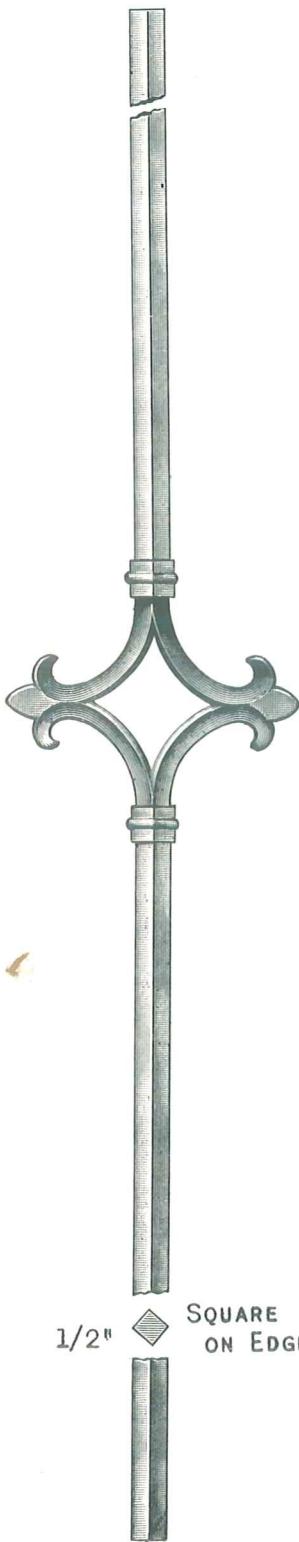
(SCALE: 3" = 1'-0")



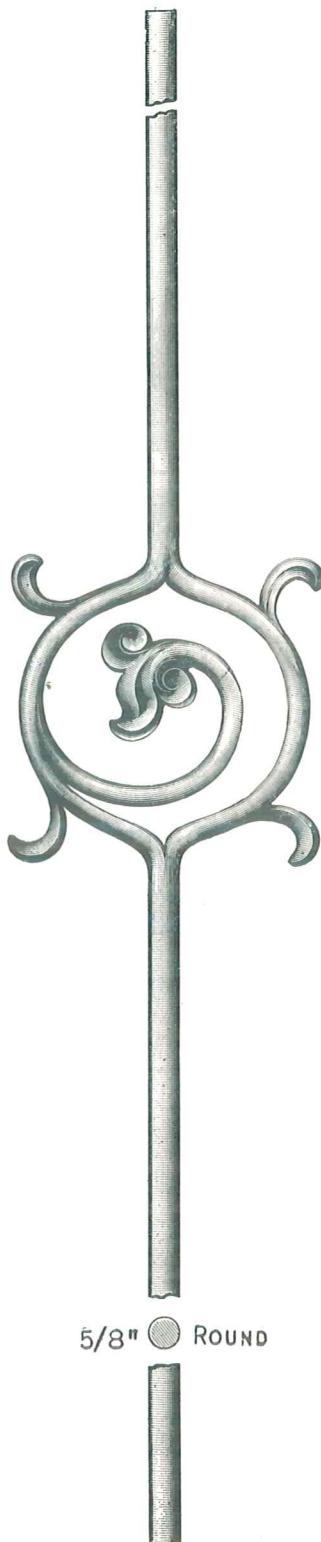
No. 528



No. 533



No. 534



No. 532

3' 3" MINIMUM LENGTH OF BARS

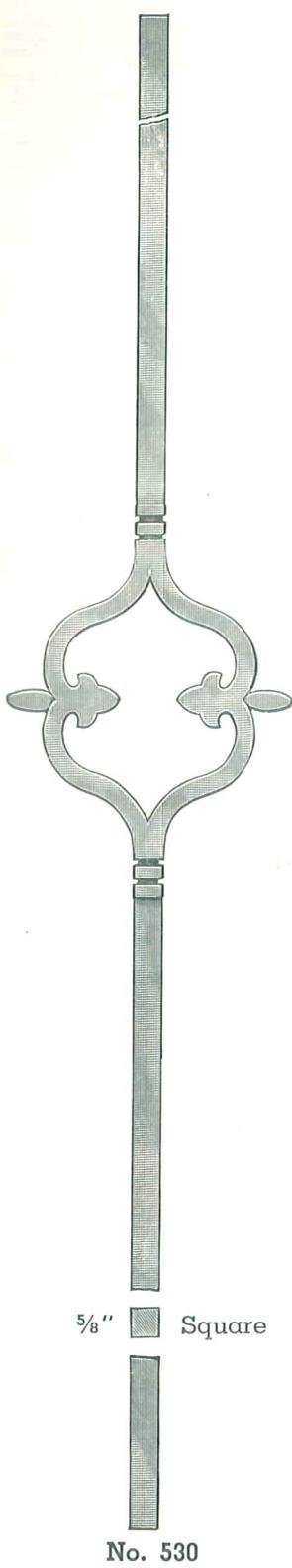
Ornamental Baluster Bars are forged in one solid piece.
Bars can be welded, drilled and tapped, hammer marked, and twisted.

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ORNAMENTAL BALUSTER BARS

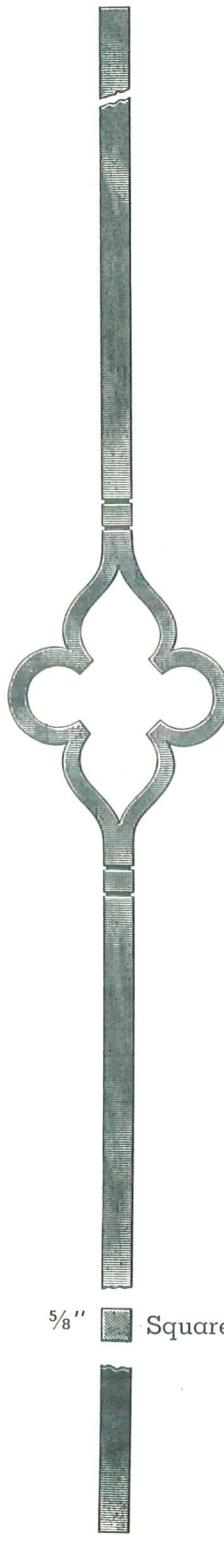
(SCALE: 3" = 1'-0")

31 3" MINIMUM LENGTH OF BARS



$\frac{5}{8}$ " Square

No. 530



$\frac{5}{8}$ " Square

No. 531



$\frac{5}{8}$ " Square

No. 529

Ornamental Baluster Bars are forged in one solid piece.
Bars can be welded, drilled and tapped, hammer marked, and twisted.

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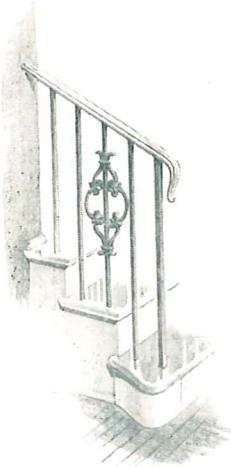
TYPICAL APPLICATIONS OF
ORNAMENTAL RAILING PANELS
 OF UNBREAKABLE MALLEABLE IRON



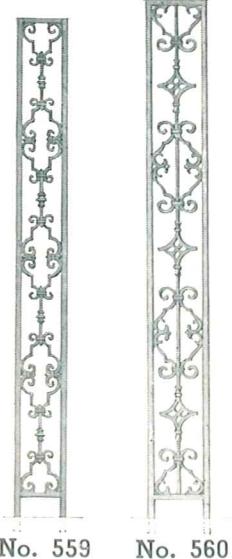
No. 560



No. 561



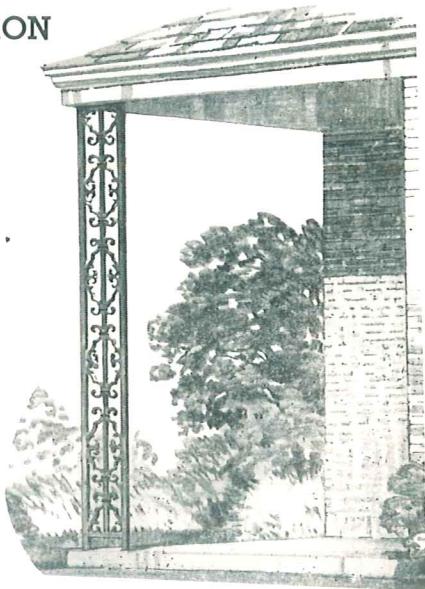
No. 567



No. 559



No. 560



No. 560



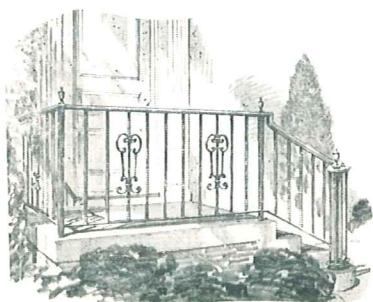
No. 565



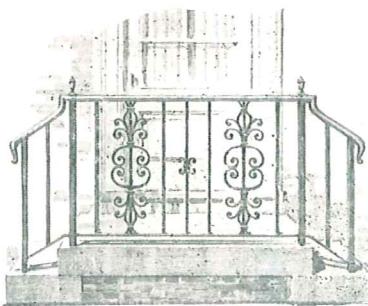
No. 561



No. 559



No. 566



Two castings No. 565 forming one panel.

These illustrations are offered as suggestions only. Railing panel castings can be used in many other ways.



Two castings No. 565 forming one panel.

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ORNAMENTAL RAILING PANELS

of Unbreakable Malleable Iron

Highly Decorative

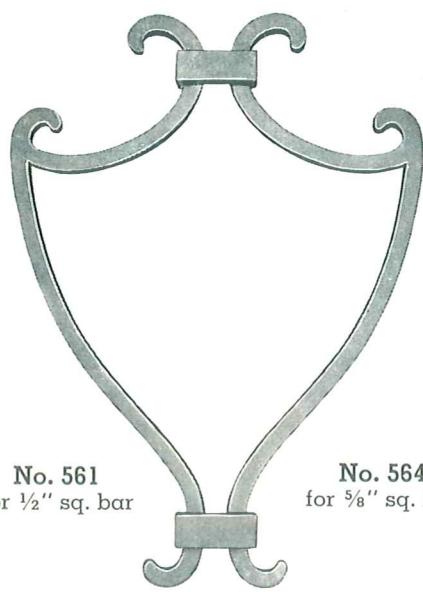


No. 559

for $\frac{1}{2}$ " sq. bar

Height 15" — Width 7"

Scale 3" = 1'-0"



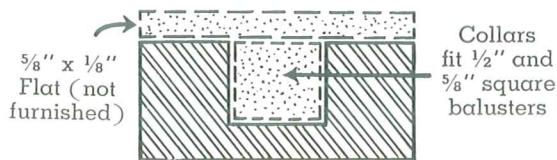
No. 561

for $\frac{1}{2}$ " sq. bar

No. 564

for $\frac{5}{8}$ " sq. bar

Height 12" — Width 8 $\frac{1}{2}$ "



Collars

fit $\frac{1}{2}$ " and
 $\frac{5}{8}$ " square
balusters

Low in Cost



No. 560

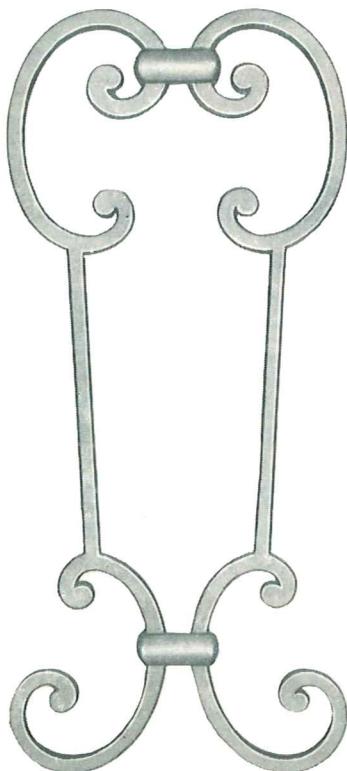
for $\frac{1}{2}$ " sq. bar

No. 563

for $\frac{5}{8}$ " sq. bar

Height 16" — Width 8 $\frac{1}{2}$ "

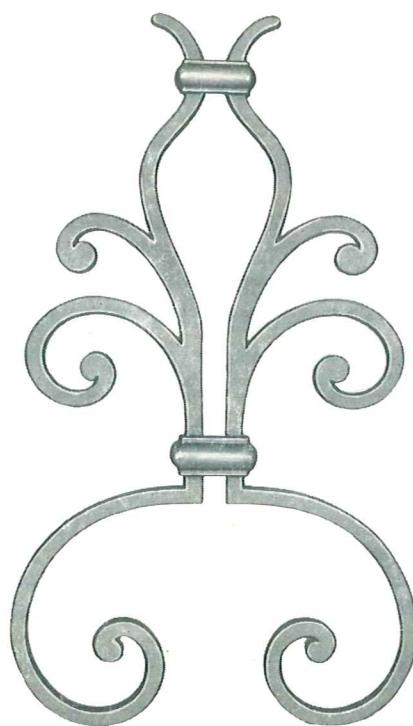
Typical Section thru Collars
Collars are open on one side for
easy installation. May be left open
or closed with a flat as shown.



No. 562

for $\frac{5}{8}$ " sq. bar

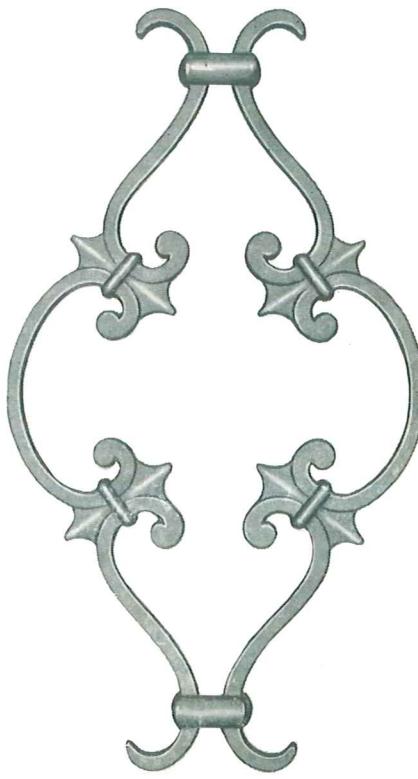
Height 16" — Width 7"



No. 565

for $\frac{1}{2}$ " sq. bar

Height 15" — Width 8 $\frac{1}{2}$ "

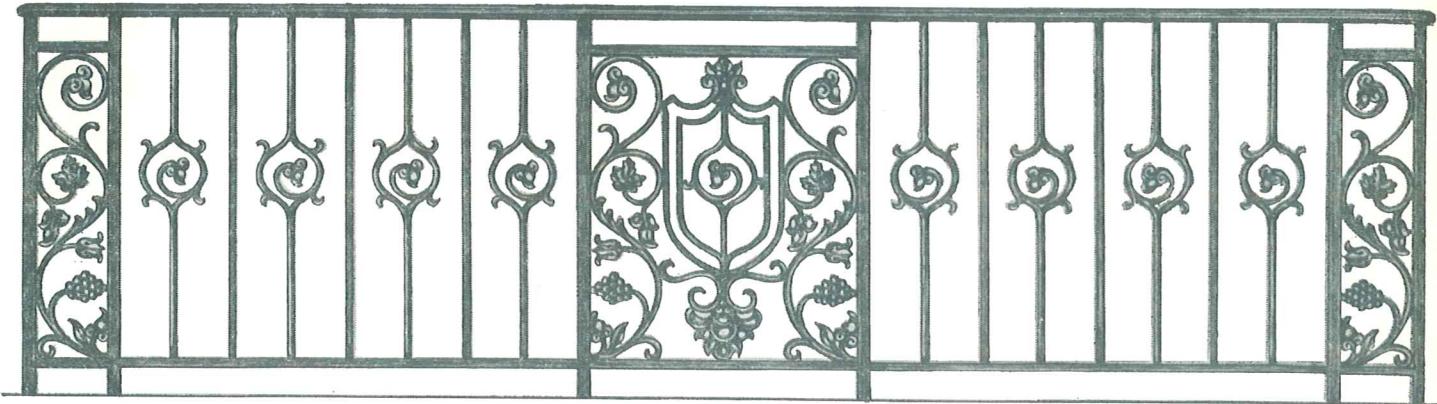


No. 567

for $\frac{1}{2}$ " sq. bar

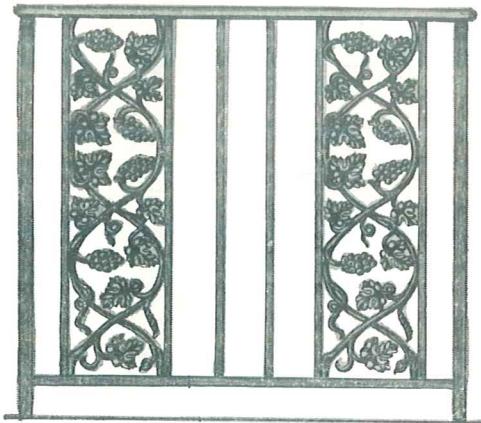
Height 16" — Width 8 $\frac{1}{2}$ "

RAILINGS CONSTRUCTED WITH STOCK PANELS

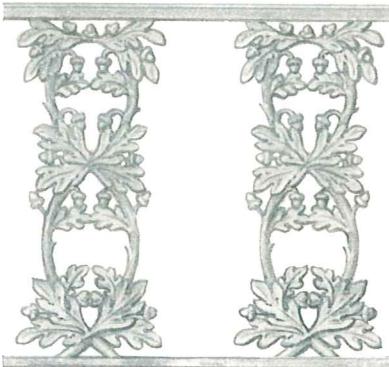


End Panels: Casting No. 520—Center Panel: Castings No. 520 and No. 521—Balusters: No. 532

Suggested designs showing
the use of our
stock elements.



Panels: Casting No. 511

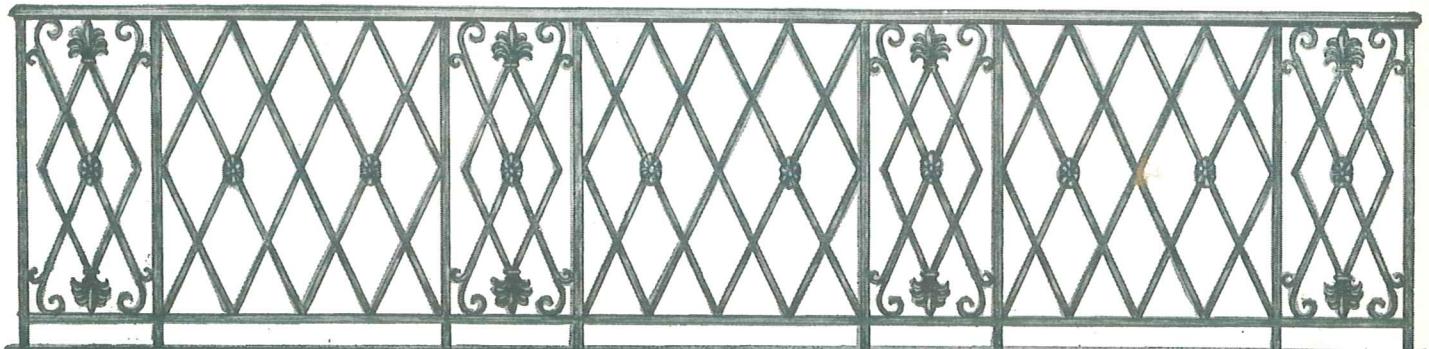


Panels: Casting No. 558



Panels: Casting No. 517

We furnish materials only and
do not fabricate or assem-
ble complete railings.



Panels: Castings No. 540 and No. 541

ORNAMENTAL DOUBLE FACED CASTINGS

MALLEABLE IRON — NO BREAKAGE

SCALE 1" = 1'-0"

53



No. 538
Height Overall—33"
Height, Scroll only—29"
Width—9 1/4"
Cross Section—
Scroll—5/8" x 7/16"
Ends—1/2" x 1/2"



No. 558
Height—28"
Width—11 1/2"



No. 539
Height Overall—34"
Height, Scroll only—26 1/2"
Width—8 1/2"
Cross Section—
Scroll—5/8" x 7/16"
Ends—1/2" x 1/2"



No. 518
Height—35 1/2"
Width—7 5/8"



No. 517
Height—34 1/2"
Width—7 5/8"



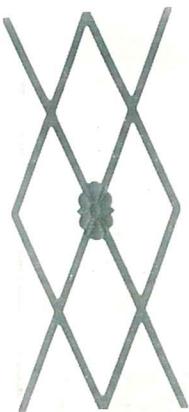
No. 537
Height Overall—37"
Height, Scroll only—28"
Width—8 1/4"
Cross Section—
Scroll—1/2" x 7/16"
Ends—1/2" x 1/2"

Ornamental Double Faced Castings are clean in appearance.
Malleable Iron Castings can be bent, hammer marked, welded or brazed.
For additional Ornamental Castings, see "Treillage" Section.

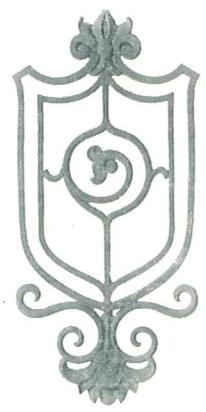
For approximate weights of castings, see page 13.



No. 519
Height—32"
Width—7 5/8"



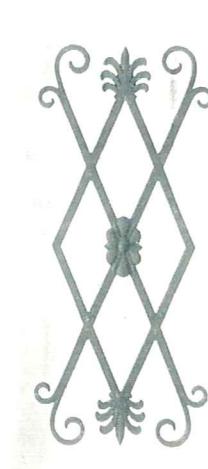
No. 540
Height—24"
Width—10 5/8"
Cross Section—5/8" x 1/2"



No. 521
Height—24 7/8"
Width—12"



No. 520
Height—24 7/8"
Width—6 7/16"



No. 541
Height—24"
Width—10 5/8"
Cross Section—5/8" x 1/2"

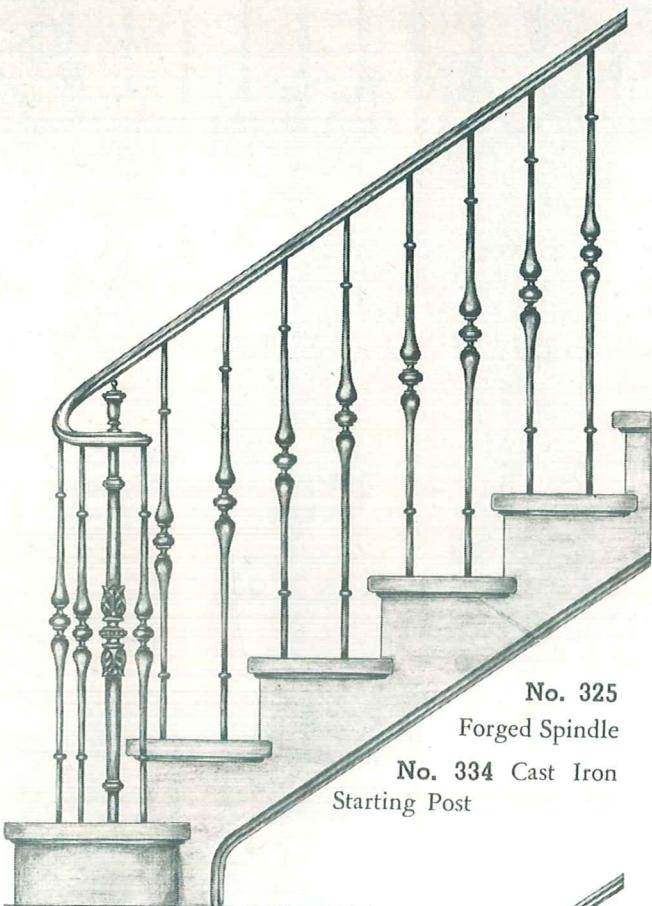


No. 511
Height—31"
Width—8 1/4"

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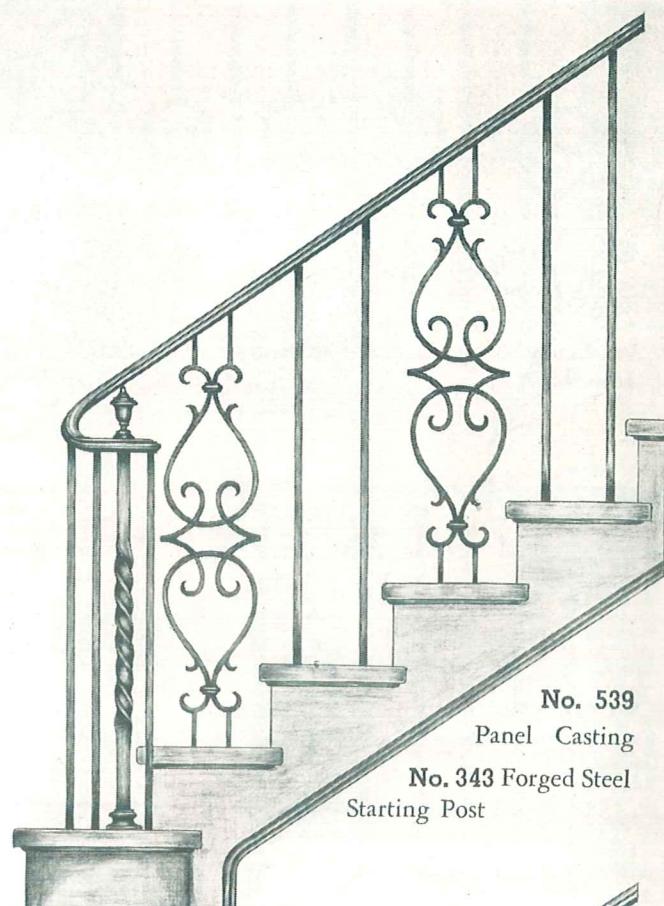
54 STAIR RAILINGS CONSTRUCTED WITH ALUMINUM, BRONZE OR STEEL
HANDRAILS AND FITTINGS, ORNAMENTAL BALUSTERS OR PANELS



No. 325

Forged Spindle

No. 334 Cast Iron
Starting Post



No. 539

Panel Casting

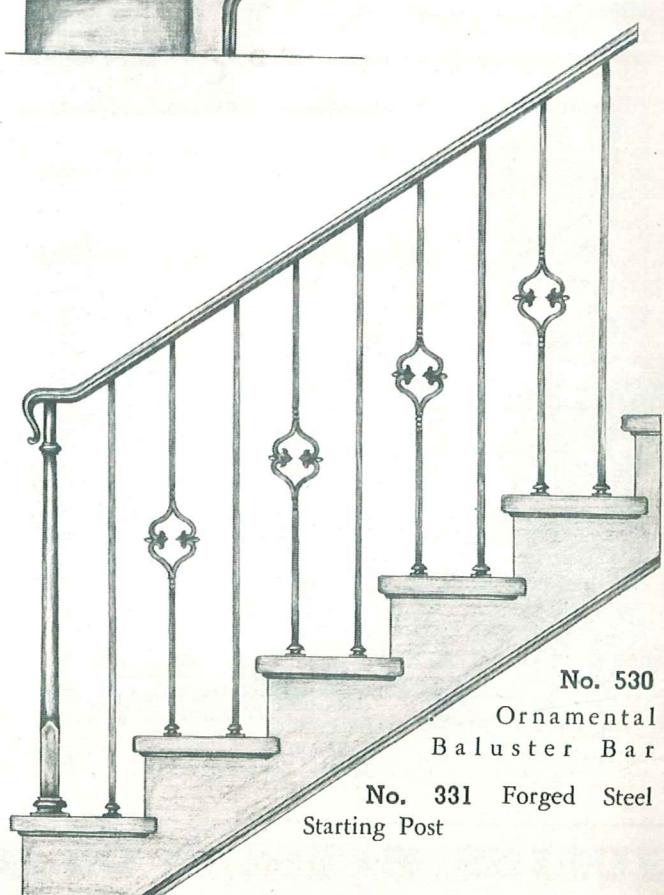
No. 343 Forged Steel
Starting Post



No. 531

Ornamental
Baluster Bar

No. 335 Cast Iron Start-
ing Post



No. 530

Ornamental
Baluster Bar

No. 331 Forged Steel
Starting Post

ORNAMENTAL DOUBLE FACED CASTINGS

MALLEABLE IRON • NO BREAKAGE

55

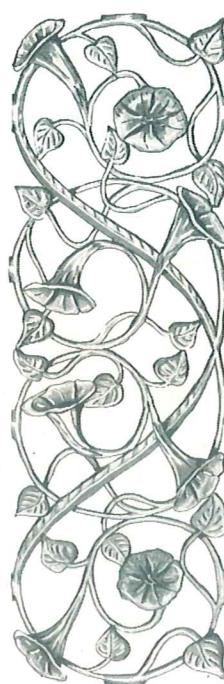
SCALE $1\frac{1}{2}'' = 1'-0''$



No. 510
Height: 28"
Width: 8 $\frac{1}{4}$ "



No. 571
Height: 28"
Width: 11"



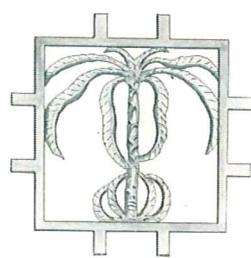
No. 580
Height: 28"
Width: 9"



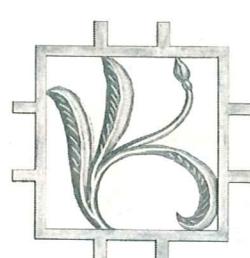
No. 576
Height: 29"
Width: 8"



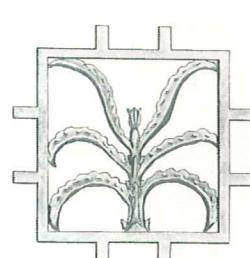
No. 584
Height: 29"
Width: 6 $\frac{1}{2}$ "



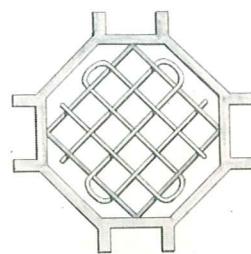
No. 591



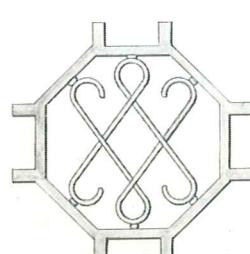
No. 592



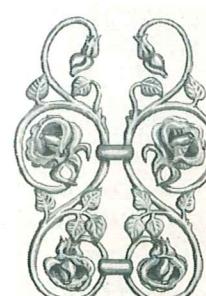
No. 595



No. 593



No. 594



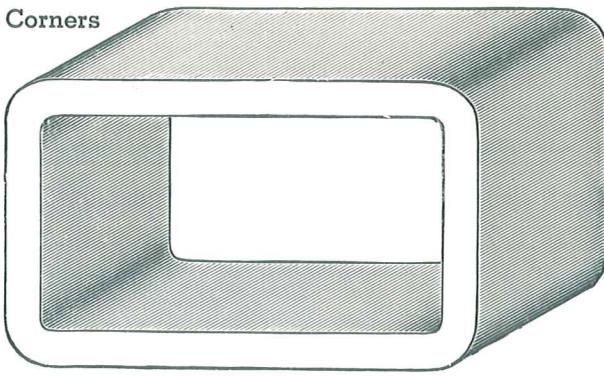
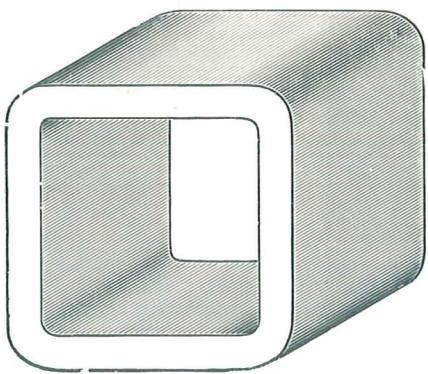
No. 570
Height: 12 $\frac{1}{2}$ "
Width: 8 $\frac{1}{2}$ "
Fits over $\frac{1}{2}$ " sq. bar.

Castings Nos. 591 to 595 have identical dimensions:
Size, over all: 10" x 10", without legs: 8" x 8"
Cross Section: Frame: $\frac{3}{8}$ " x $\frac{5}{8}$ ", Legs: $\frac{1}{2}$ " x $\frac{5}{8}$ "

Heavy Wall Square and Rectangular Steel Tubing

Carried in Stock in Long Lengths Up to 22 Feet

Slightly Rounded Corners



SQUARE

		Weight per ft.
1"	x 1"	.120"
1 1/4"	x 1 1/4"	.120"
1 1/4"	x 1 1/4"	.135"
1 1/4"	x 1 1/4"	3/8"
1 1/2"	x 1 1/2"	.120"
1 1/2"	x 1 1/2"	.140"
1 1/2"	x 1 1/2"	3/8"
2"	x 2"	.120"
2"	x 2"	.145"
2"	x 2"	3/8"
2"	x 2"	1/4"
2 1/2"	x 2 1/2"	.120"
2 1/2"	x 2 1/2"	3/8"
2 1/2"	x 2 1/2"	1/4"
3"	x 3"	1/8"
3"	x 3"	3/8"
3"	x 3"	1/4"
3 1/2"	x 3 1/2"	1/8"
3 1/2"	x 3 1/2"	3/8"
4"	x 4"	.134"
4"	x 4"	3/8"
4"	x 4"	1/4"
		12.18

Weight
per ft.

OUTSIDE MEASUREMENTS

For other stock sizes of square and rectangular steel tubing, see page 6. Additional sizes can be furnished from mill.

STRUCTURAL STEEL TUBING

A high strength — low cost tubing—suitable for porch columns and railing posts—considerably cheaper than solid bars.

SQUARE	Weight per ft.
1" x 1" x .073"	92 lb.

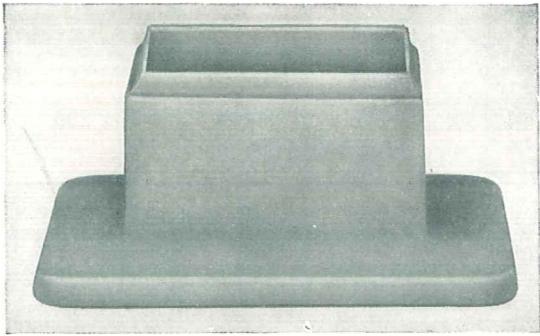
RECTANGULAR

Weight
per ft.

2 1/2" x 1 1/2" x .120"	3.068 lb.
2 1/2" x 1 1/2" x .145"	3.750
2 1/2" x 1 1/2" x 3/8"	4.500
3" x 1 1/2" x 3/8"	5.272
3" x 2" x .120"	3.884
3" x 2" x 3/8"	5.911
4" x 2" x .120"	4.887
4" x 2" x 3/8"	6.903
4" x 3" x 1/8"	5.800
4" x 3" x 3/8"	8.129
5" x 2 1/2" x 3/8"	8.743
6" x 3" x 3/8"	10.57
6" x 3" x 1/4"	14.45
6" x 4" x 3/8"	11.81
6" x 4" x 1/4"	16.15
8" x 3" x 3/8"	13.04
8" x 4" x 3/8"	14.27

If galvanizing is required, we will gladly deliver tubing to local galvanizing plant.

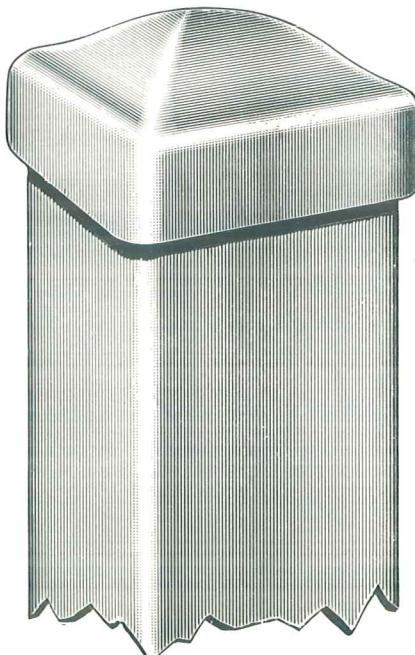
SQUARE TUBE SOCKETS



Cast Iron Square Tube Sockets carried in stock for posts from 1" square to 3" square. For dimensions, see page 42.

STEEL STAIR POSTS

Tubular steel posts are light and strong, straight and true, easy to fabricate and install. Tubing listed here is sufficiently heavy for tap screws.

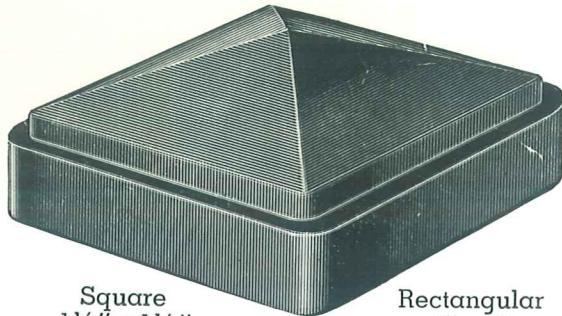


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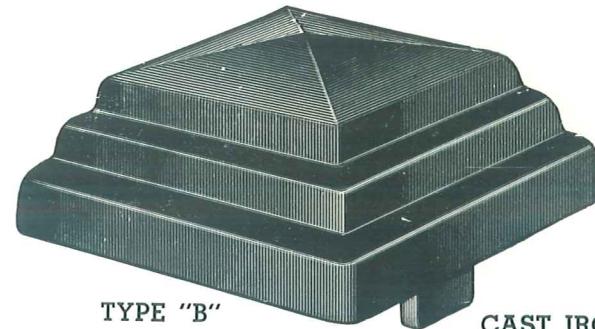
NEWEL POST CAPS AND DROPS

57



TYPE "A"
CAST IRON
Square
1½" x 1½"
2" x 2"
2½" x 2½"
3" x 3"
3½" x 3½"
4" x 4"

Rectangular
3" x 4"
3" x 6"
3" x 8"
4" x 6"
4" x 8"



TYPE "B"
With lugs
CAST IRON
Square
3" x 3"
3½" x 3½"
4" x 4"



TYPE "A"

POLISHED BRONZE

Square
2" x 2"
3" x 3"
4" x 4"



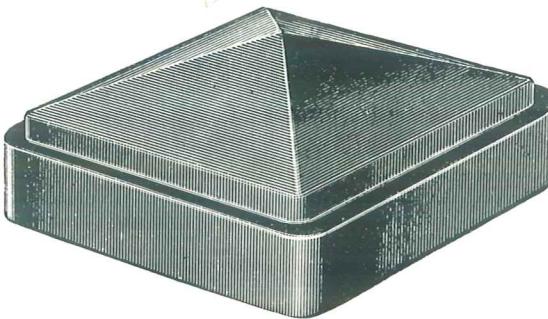
TYPE "W"
PRESSED STEEL

Square
3" x 3"
4" x 4"

TYPE "W"
STAINLESS STEEL

Square
3" x 3"
4" x 4"

Pressed Steel Caps require no fastening as they fit snugly over the ends of the tube.



TYPE "A"

POLISHED ALUMINUM

Rectangular
3" x 6"



TYPE "C"
CAST IRON

With lugs - Square
1½" x 1½"
2" x 2"
2½" x 2½"
3" x 3"
4" x 4"

All sizes shown are outside measurements of tubing



BALL CAP	CAST IRON	
Post Size	Dia. Ball	Height
2" x 2"	1½"	3¾"
2½" x 2½"	2½"	4½"
3" x 3"	2½"	4½"
3½" x 3½"	2½"	5½"
4" x 4"	2¾"	5½"

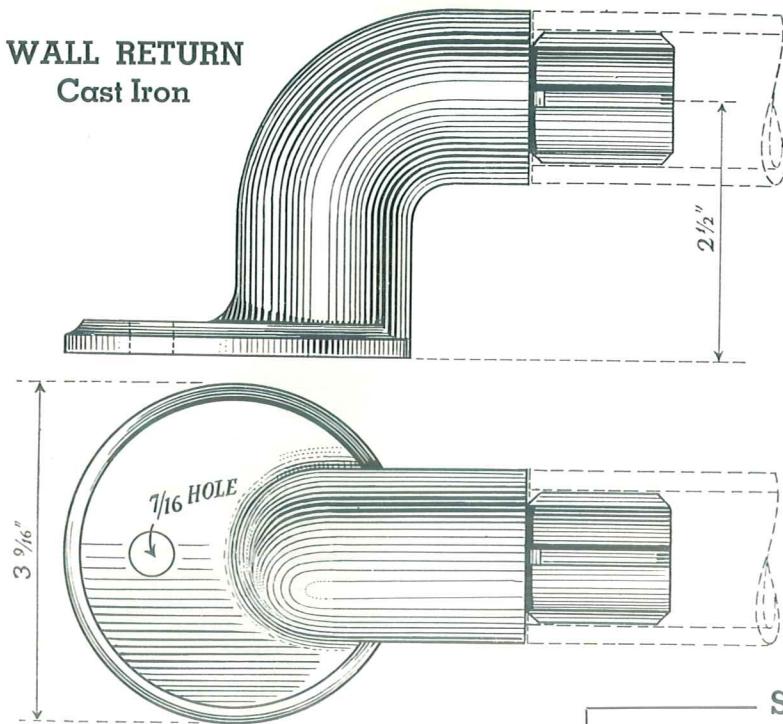
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PIPE RAILING FITTINGS

Black and Galvanized

Illustrations are NOT actual size

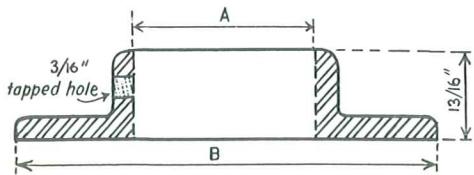
WALL RETURN
Cast Iron



WALL RETURN

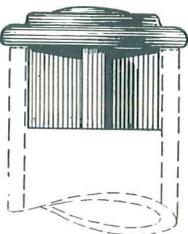
Pipe Size	Black No.	Galvanized No.
1 1/4"	604	1604
1 1/2"	605	1605

SLIP FLANGE
Cast Iron



Pipe Size	Black No.	Galvanized No.	A	B
3/4"	613	1613	1 1/32"	3 3/8"
1"	614	1614	1 11/32"	3 5/8"
1 1/4"	610	1610	1 11/16"	3 7/8"
1 1/2"	611	1611	2"	4 3/16"
2"	612	1612	2 7/16"	4 5/8"

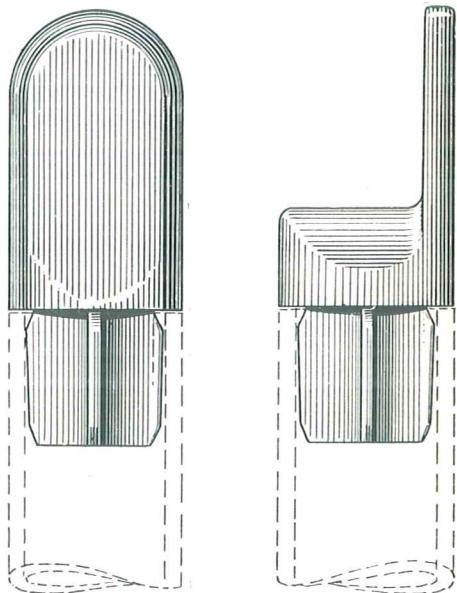
PIPE PLUG
Cast Iron



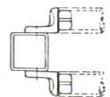
Pipe Size	Black No.	Galvanized No.
1 1/4"	607	1607
1 1/2"	608	1608
2"	609	1609

SQUARE POST FITTING

Malleable Iron
Black Only



Square Post Fittings used with 4" or larger post.



Square Post Fittings used with 3" or smaller post.

Square post fittings are made reversible so as to allow enough clear space between ascending and descending pipe rails regardless of size of post.

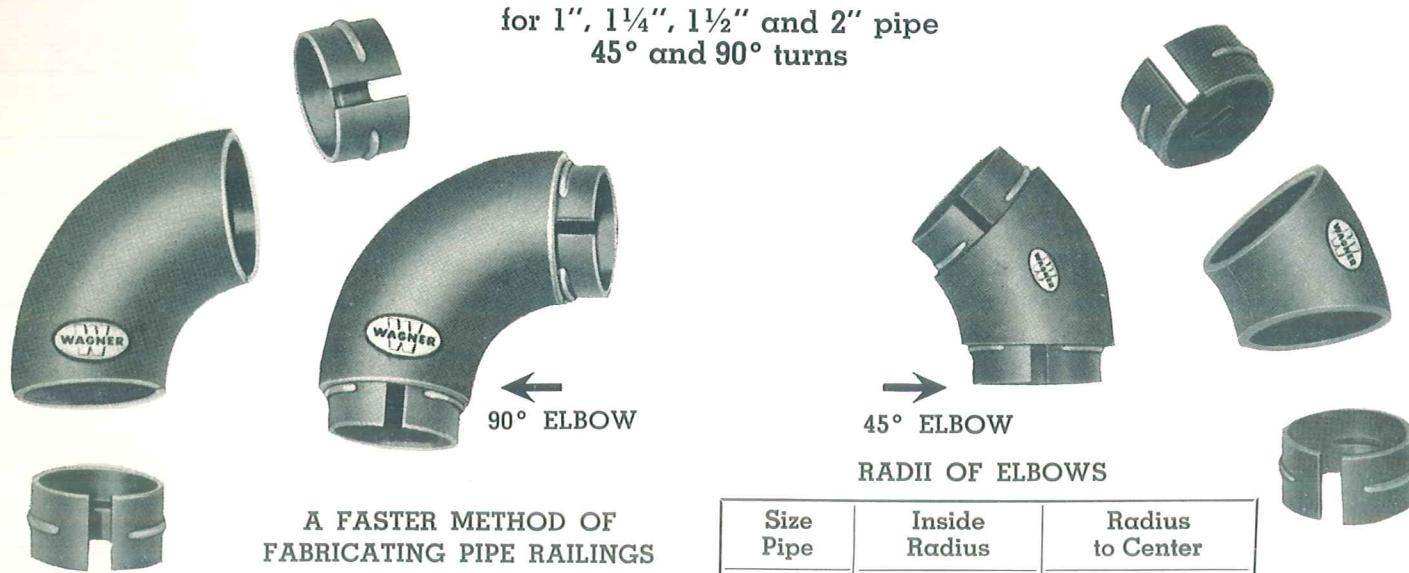
No. 601 for 1 1/4" pipe
No. 602 for 1 1/2" pipe

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STEEL ELBOWS FOR WELDED PIPE CONSTRUCTION

for 1", 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ " and 2" pipe
45° and 90° turns



A FASTER METHOD OF FABRICATING PIPE RAILINGS

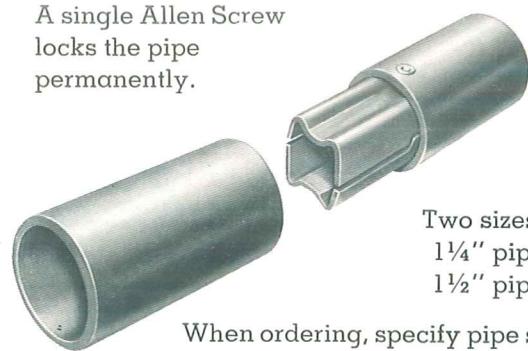
Steel Elbows and Connectors are easy to assemble. Connector snaps in place with a spring fit, holding the elbow and pipe in proper position for welding.

PIPE SPLICE LOCK

For quick weldless end-to-end connection of pipe in the shop or in the field.

Connections made with the pipe splice lock are flush, permanent and in perfect alignment.

A single Allen Screw locks the pipe permanently.



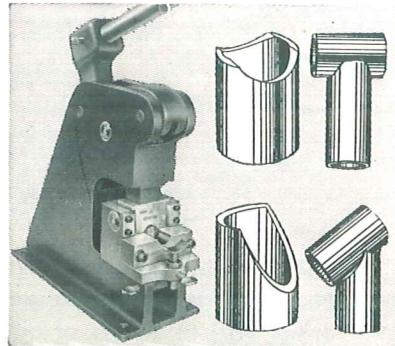
Two sizes:
1 $\frac{1}{4}$ " pipe
1 $\frac{1}{2}$ " pipe

When ordering, specify pipe size.

EQUIPMENT FOR FABRICATION OF PIPE RAILINGS

"Arc Fit"

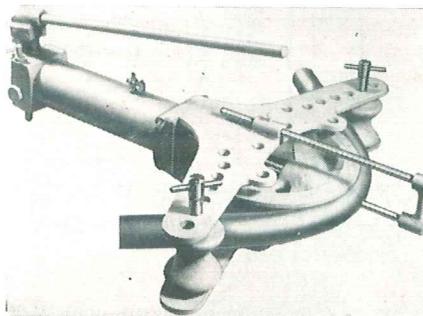
The Arc Fit notches the end of the pipe so as to produce a perfect fit for T joints — no deformation of the pipe. Dies carried in stock for $\frac{3}{4}$ " to 2 $\frac{1}{2}$ " pipe.



PORTABLE HYDRAULIC PIPE BENDER

The Tal Bender handles any size pipe without effort. Three sizes, for pipe up to 2", up to 3", and up to 4".

Also furnished with motor drive.



For details, see pages 120 and 121.

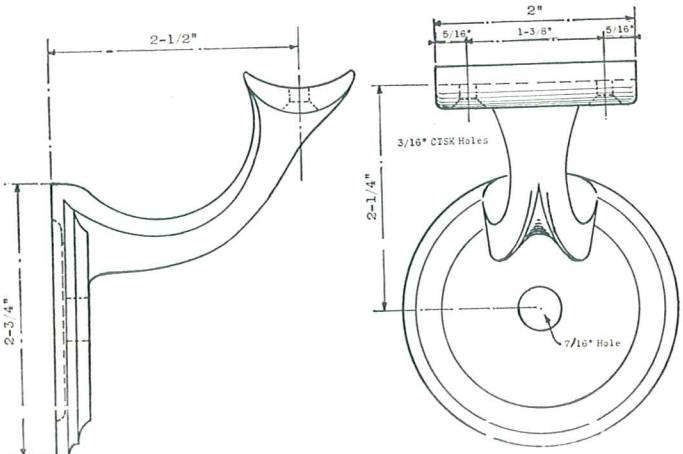
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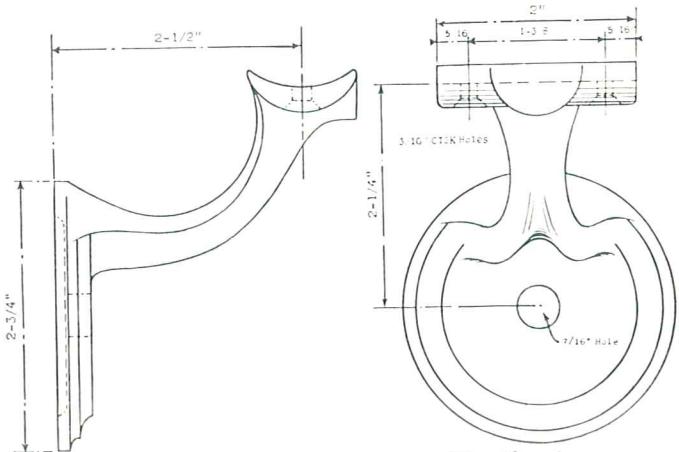
PIPE HANDRAIL WALL BRACKETS

Curved Top Member, for 1 $\frac{1}{4}$ " or Larger Pipe

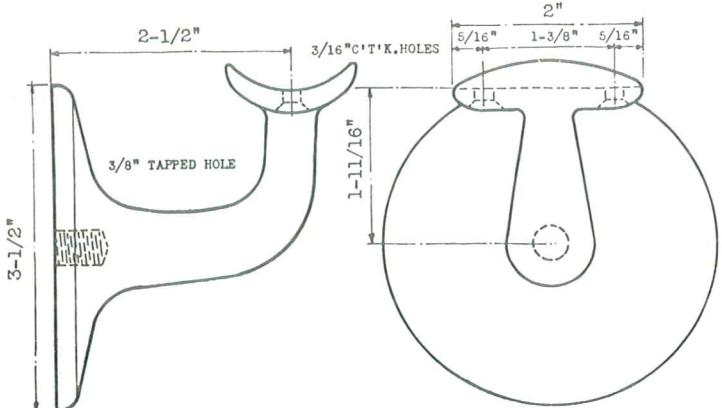
BLACK AND GALVANIZED



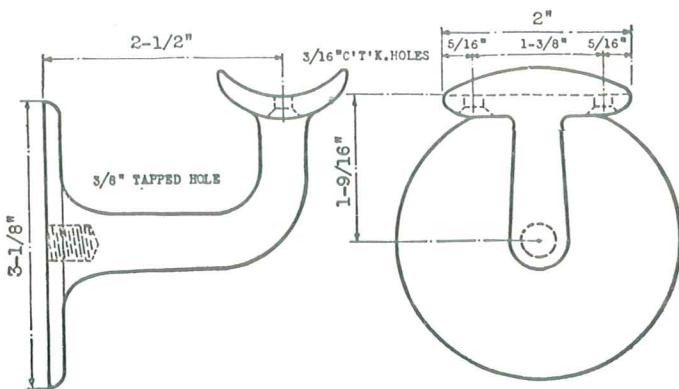
No. 380—Cast Iron—Black Only
2 $\frac{1}{2}$ " from wall to center of pipe



No. 382—Malleable Iron—Black
No. 1382—Malleable Iron—Galvanized
2 $\frac{1}{2}$ " from wall to center of pipe

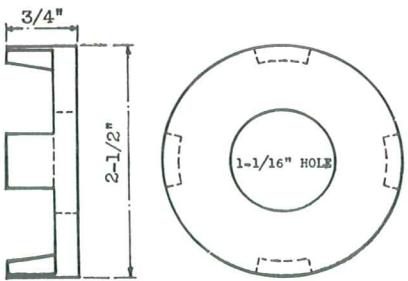


No. 374—Cast Iron—Black Only
2 $\frac{1}{2}$ " from wall to center of pipe

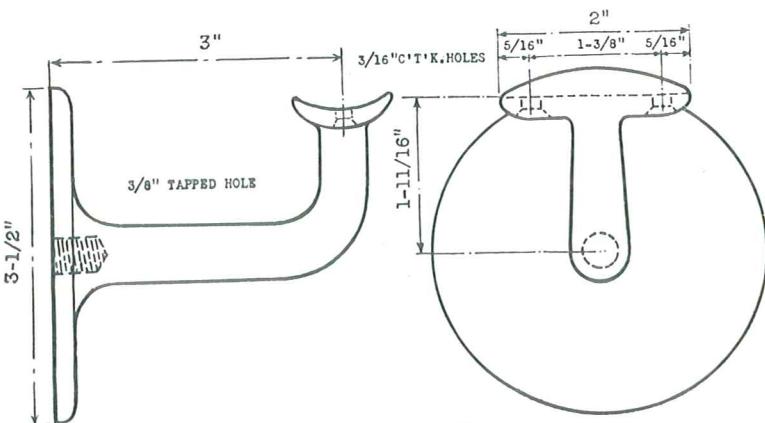


No. 378—Malleable Iron—Black
No. 1378—Malleable Iron—Galvanized
2 $\frac{1}{2}$ " from wall to center of pipe

HANDRAIL WALL BRACKET FILLER



No. 372—Cast Iron—Black Only
Set in plaster wall before mounting
Handrail Bracket



No. 386—Malleable Iron—Black
No. 1386—Malleable Iron—Galvanized
3" from wall to center of pipe

All styles of Handrail Brackets can also be furnished with flat top member for use with handrail moulding or flat handrail. See page 32.

Handrail Brackets are furnished with screw holes for fastening to wall and to handrail.

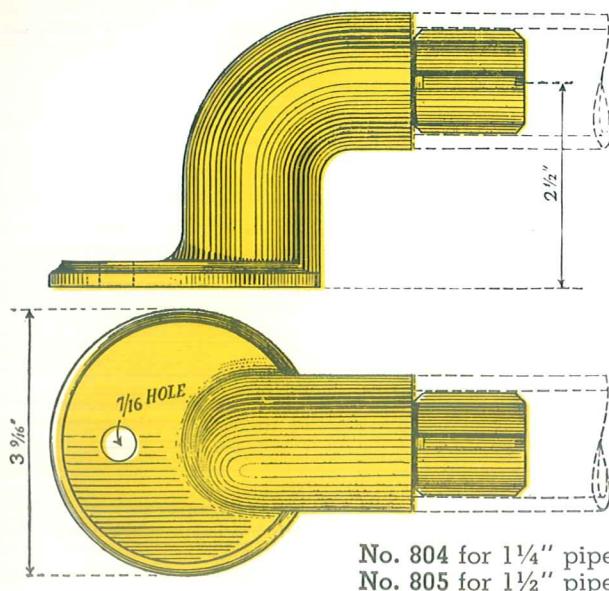
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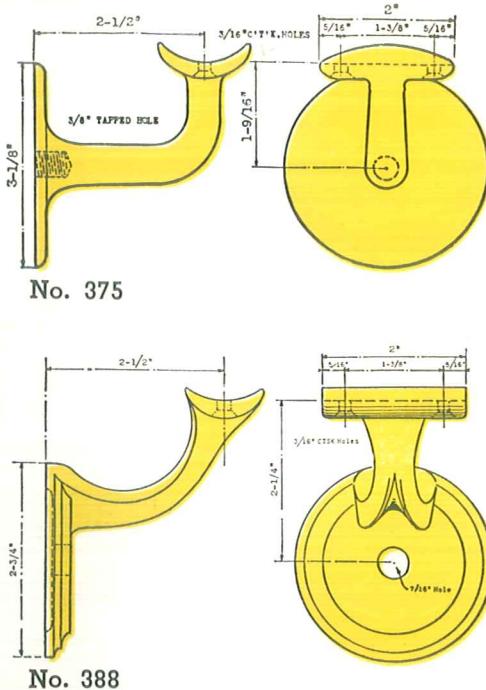
BRONZE HANDRAIL PIPE

Polished Bronze Pipe Railing Fittings
(Satin Finish)

BRONZE WALL RETURN



BRONZE HANDRAIL WALL BRACKETS



Handrail Brackets can also be furnished with flat top member for use with handrail moulding or flat handrail. See page 37.

BRONZE HANDRAIL PIPE

Plain ends—unmarked—20 foot lengths

Nominal Size	O.D.	Wall	Weight per foot
1 1/4"	1.660	.140"	2.63 lb.
1 1/2"	1.900	.145"	3.13 lb.

Bronze Handrail Pipe matches the color of Architectural Bronze Shapes and bars.

BRONZE PIPE PLUG



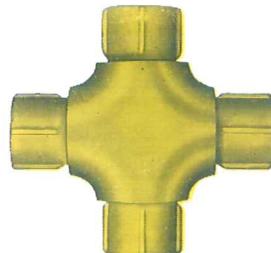
No. 807 for 1 1/4" pipe
No. 808 for 1 1/2" pipe

BRONZE 90° ELBOW



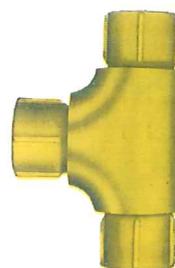
No. 818 for 1 1/4" pipe
No. 819 for 1 1/2" pipe

BRONZE 90° CROSS



No. 824 for 1 1/4" pipe
No. 825 for 1 1/2" pipe

BRONZE 90° TEE



No. 821 for 1 1/4" pipe
No. 822 for 1 1/2" pipe

BRONZE FLOOR FLANGE



No. 827 for 1 1/4" pipe
No. 828 for 1 1/2" pipe

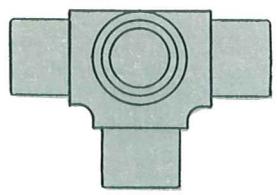
BRONZE COVER FLANGE



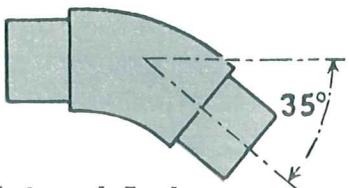
No. 810 for 1 1/4" pipe
No. 811 for 1 1/2" pipe

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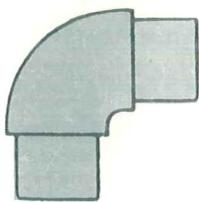
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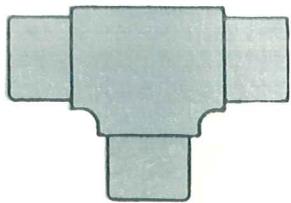
90° Tee
Side Outlet
 $1\frac{1}{4}''-1\frac{1}{2}''$ pipe



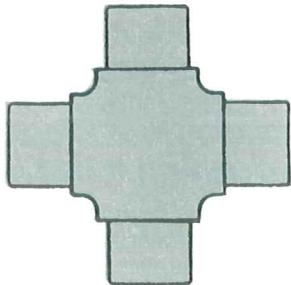
Horizontal Angle
Elbow (E)
 $1\frac{1}{4}''-1\frac{1}{2}''$ pipe



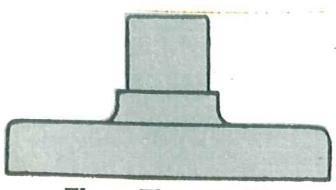
90° Elbow (A)
 $1\frac{1}{4}''-1\frac{1}{2}''-2''$ pipe



90° Tee (B)
 $1\frac{1}{4}''-1\frac{1}{2}''-2''$ pipe



90° Cross (C)
 $1\frac{1}{4}''-1\frac{1}{2}''-2''$ pipe



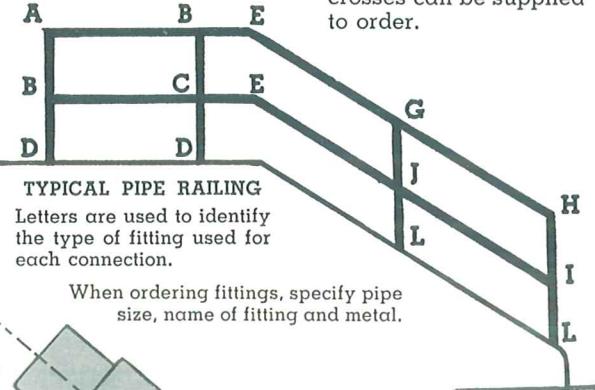
Floor Flange (D)
 $1\frac{1}{4}''-1\frac{1}{2}''-2''$ pipe

ALCOA ALUMINUM HANDRAIL PIPE FITTINGS

Flush type — Unpolished

ALLOY 214 — SUITABLE FOR ALUMILITING

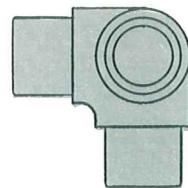
All fittings shown here are carried in stock. 40° Angle Fittings, angle fittings with side outlet, half angle tees and crosses can be supplied to order.



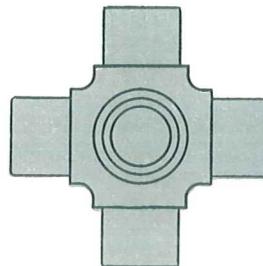
TYPICAL PIPE RAILING

Letters are used to identify the type of fitting used for each connection.

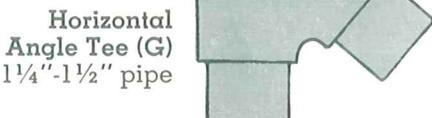
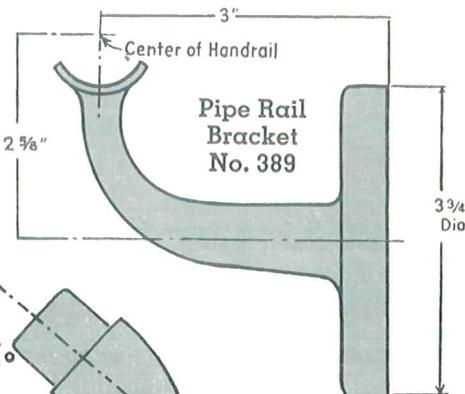
When ordering fittings, specify pipe size, name of fitting and metal.



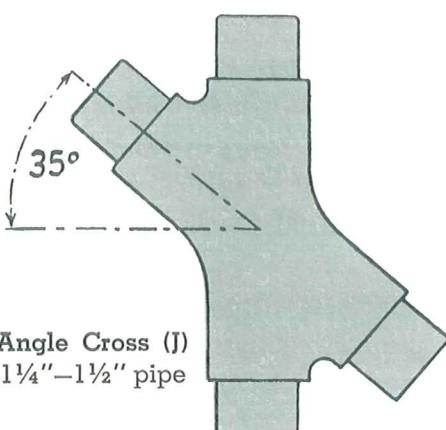
90° Elbow
Side Outlet
 $1\frac{1}{4}''-1\frac{1}{2}''$ pipe



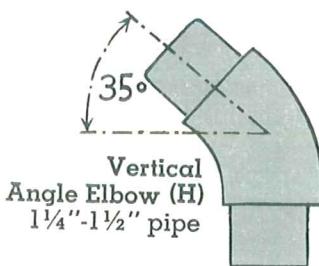
90° Cross, Side Outlet
 $1\frac{1}{4}''-1\frac{1}{2}''$ pipe



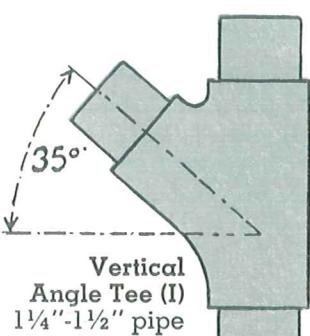
Horizontal
Angle Tee (G)
 $1\frac{1}{4}''-1\frac{1}{2}''$ pipe



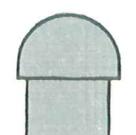
Angle Cross (J)
 $1\frac{1}{4}''-1\frac{1}{2}''$ pipe



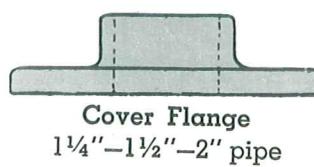
Vertical
Angle Elbow (H)
 $1\frac{1}{4}''-1\frac{1}{2}''$ pipe



Vertical
Angle Tee (I)
 $1\frac{1}{4}''-1\frac{1}{2}''$ pipe



Terminus
 $1\frac{1}{4}''-1\frac{1}{2}''-2''$
pipe

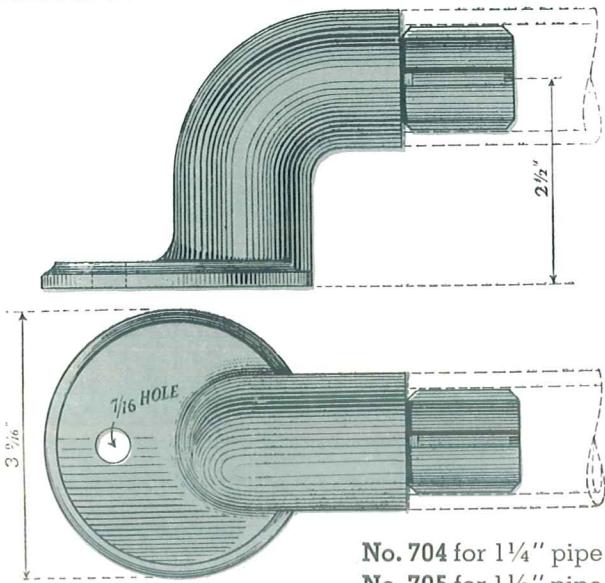


Cover Flange
 $1\frac{1}{4}''-1\frac{1}{2}''-2''$ pipe

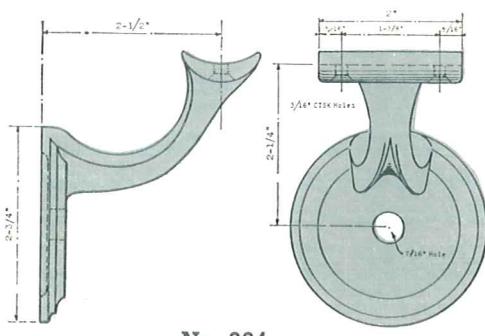
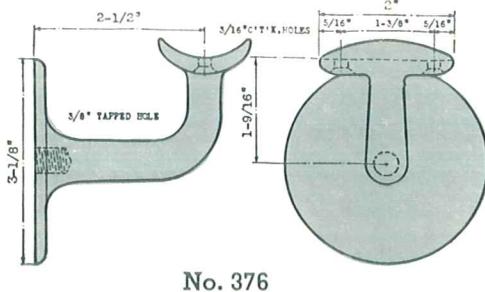
ALUMINUM HANDRAIL PIPE

Polished Aluminum Pipe Railing Fittings
(Satin Finish)

ALUMINUM WALL RETURN



ALUMINUM HANDRAIL WALL BRACKETS



Handrail brackets can also be furnished with flat top member for use with handrail moulding or flat handrail. See page 37.

ALUMINUM I.P.S. TUBING (Handrail Pipe)

Alloy 6063-T832 (63S-T832) except as noted
20 foot lengths—suitable for alumiliting.

Nominal Size	O.D.	Wall Thickness	Weight per foot
3/4"	1.050"	.113"	.391 lb.
1"	1.315"	.133"	.581 lb.
1 $\frac{1}{4}$ "	1.660"	.140"	.785 lb.
1 $\frac{1}{2}$ "	1.900"	.145"	.940 lb.
2"	2.375"	.154"	1.264 lb.

This pipe is produced especially for use in railings, combining straightness, accurate dimensions and superior finish.

* Alloy 6063-T5 (63S-T5)

ALUMINUM PIPE PLUGS



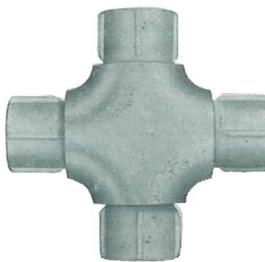
No. 707 for 1 $\frac{1}{4}$ " pipe
No. 708 for 1 $\frac{1}{2}$ " pipe
No. 709 for 2" pipe

ALUMINUM 90° ELBOWS



No. 718 for 1 $\frac{1}{4}$ " pipe
No. 719 for 1 $\frac{1}{2}$ " pipe
No. 720 for 2" pipe

ALUMINUM 90° CROSS



No. 724 for 1 $\frac{1}{4}$ " pipe
No. 725 for 1 $\frac{1}{2}$ " pipe
No. 726 for 2" pipe

ALUMINUM 90° TEE



No. 721 for 1 $\frac{1}{4}$ " pipe
No. 722 for 1 $\frac{1}{2}$ " pipe
No. 723 for 2" pipe

ALUMINUM FLOOR FLANGE



No. 710 for 1 $\frac{1}{4}$ " pipe
No. 711 for 1 $\frac{1}{2}$ " pipe
No. 712 for 2" pipe



No. 727 for 1 $\frac{1}{4}$ " pipe
No. 728 for 1 $\frac{1}{2}$ " pipe
No. 729 for 2" pipe

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SADDLES-NOSINGS



ALL the shapes described in this section are carried in stock in long random lengths. They can also be furnished cut to specified lengths.

Door Sills and Elevator Saddles of any length, width or shape can be constructed with our sections. The bars are straight, true and free from imperfections. The sectional saddles are easily assembled, eliminating costly patterns, delays and finishing operations.

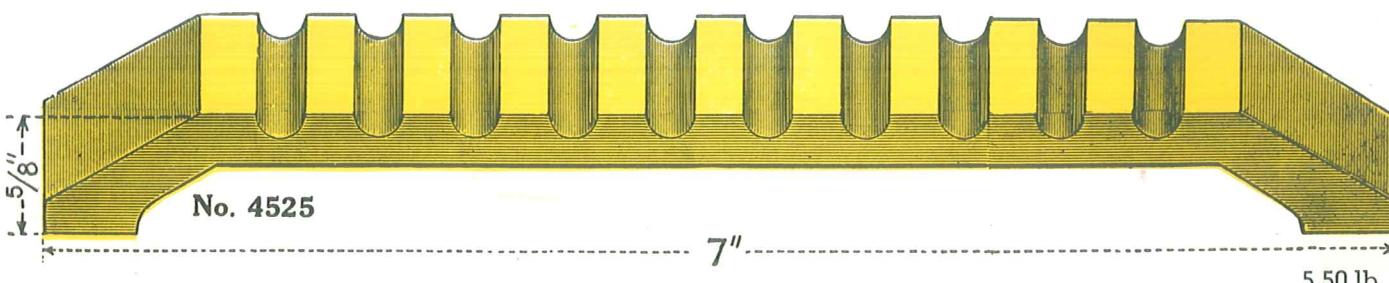
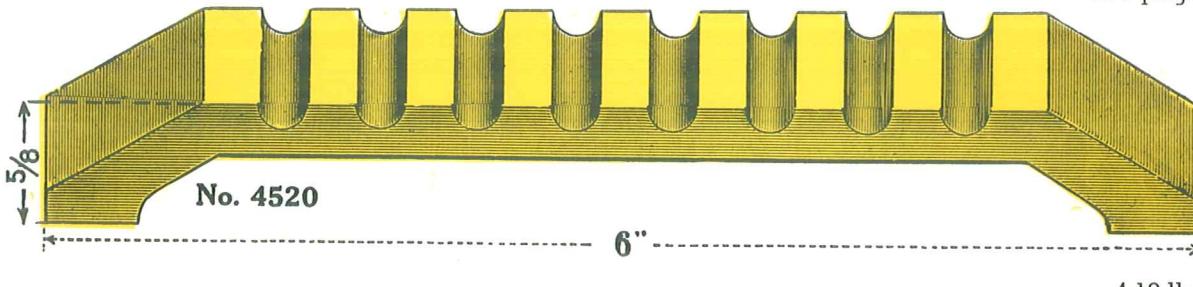
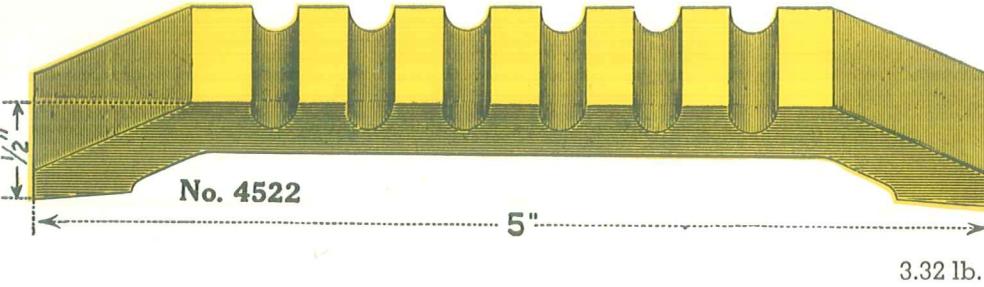
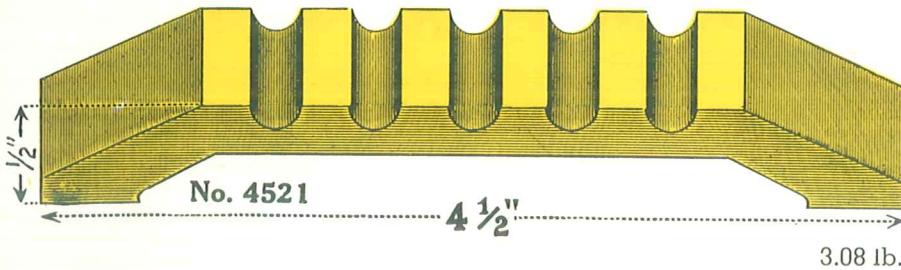
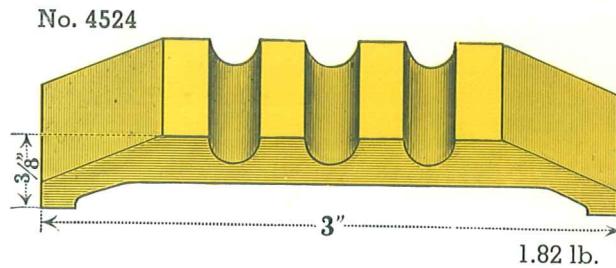
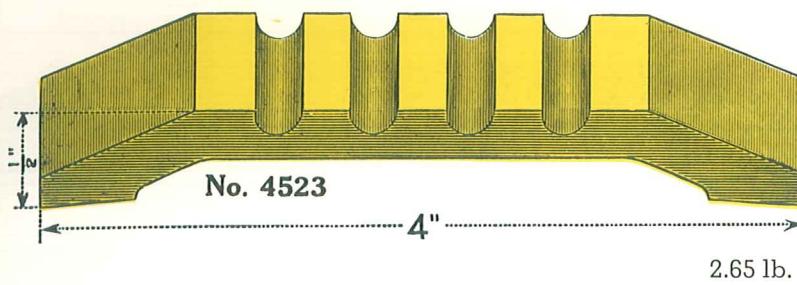
Every item listed in this section is carried in stock in substantial quantities. Shipment usually can be made immediately upon receipt of order.

Subjects covered in this section:

	Page No.
Aluminum	66, 67
Door Saddles	66, 67
Weatherstrip Saddle	67
Step Nosings	80, 81
Assembled Saddle Sections	71
Elevator Saddle Sections	79
Aluminum Screws	66
Bronze	65, 66
Door Saddles	65, 66
Weatherstrip Saddles	68
Roof Door Saddle	68
Assembled Saddle Sections	71, 72
Elevator Saddle Sections	76, 77
Step Nosings	81
Brass Screws	65
Steel	69
Door Saddles	69
Assembled Saddle Sections	73
Elevator Saddle Sections	78
Step Nosings	80, 81
Curb Bar	80
Nickel Silver (White Bronze)	79
Elevator Saddles	79

ARCHITECTURAL BRONZE DOOR SADDLES

65



Carried in stock in long, straight bars. Can also be furnished cut to specified lengths.

Bronze Door Saddles have a bright mill finish which usually makes polishing unnecessary.

BRASS MACHINE SCREWS FLAT HEAD

$\frac{1}{4}'' \times 1''$ x 20 threads p. in.
 $\frac{1}{4}'' \times 1\frac{1}{4}''$ x 20 threads p. in.
 $\frac{1}{4}'' \times 1\frac{1}{2}''$ x 20 threads p. in.



BRASS WOOD SCREWS FLAT HEAD

$1\frac{1}{2}''$ long x No. 14
2" long x No. 14



We can also supply Lead Anchors or Tampins required for installing saddles.

EXTRA WIDE SADDLES

Bronze Door Saddles of any desired width may be assembled from sections described on pages 71 and 72.

For smooth top saddles, see page 66.

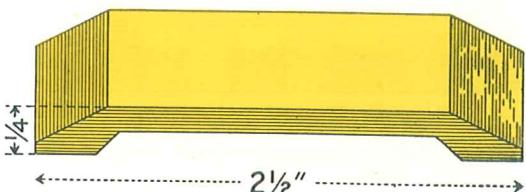
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ARCHITECTURAL BRONZE DOOR SADDLES

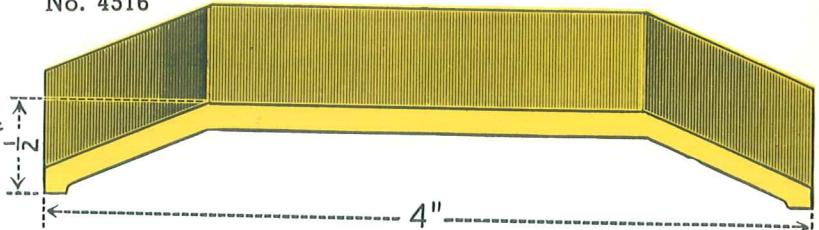
No. 4510

1.18 lb.



No. 4516

1.90 lb.



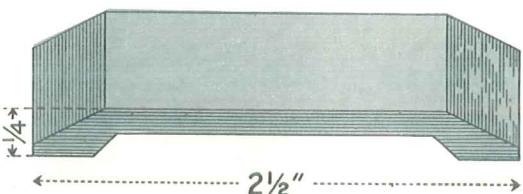
Bronze Door Saddles have a bright mill finish which usually makes polishing unnecessary.

ARCHITECTURAL ALUMINUM DOOR SADDLES

Alloy 6063-T5 (63S-T5)

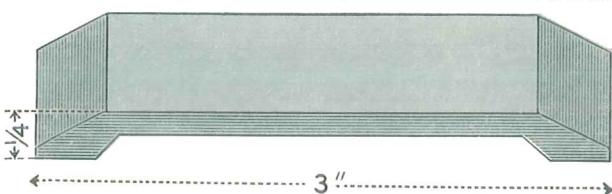
No. 6910

.365 lb.



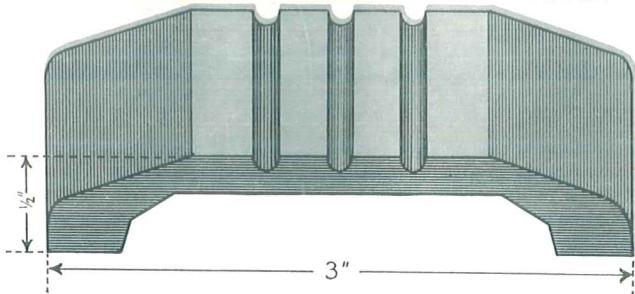
No. 6914 (Alcoa No. 10351)

.476 lb.



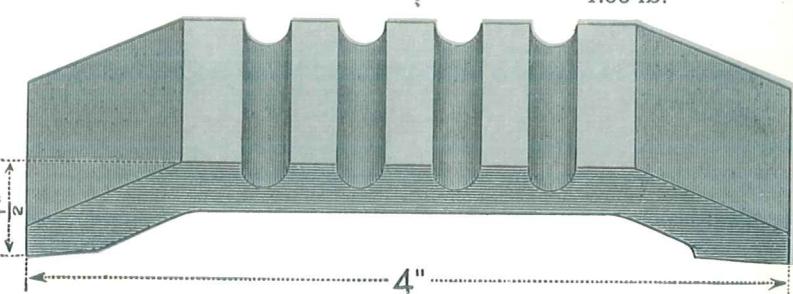
No. 6924 (Alcoa No. 38651)

.721 lb.



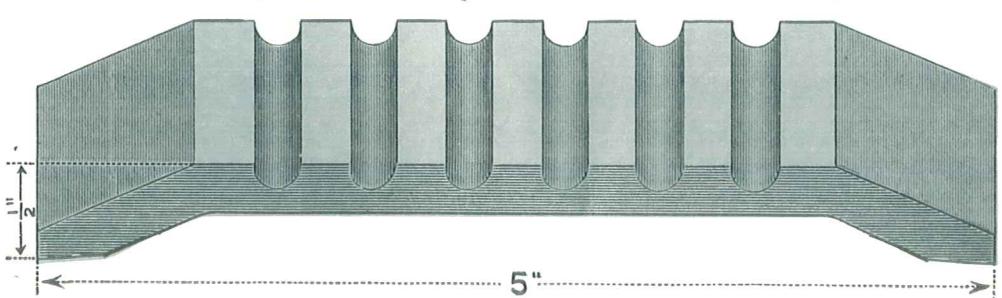
No. 6923

1.05 lb.



No. 6922

1.27 lb.



ALUMINUM MACHINE SCREWS FLAT HEAD

$\frac{1}{4}$ " x 1" x 20 threads p. in.

$\frac{1}{4}$ " x 1 1/4" x 20 threads p. in.

$\frac{1}{4}$ " x 1 1/2" x 20 threads p. in.



ALUMINUM WOOD SCREWS FLAT HEAD

1 1/2" long x No. 14

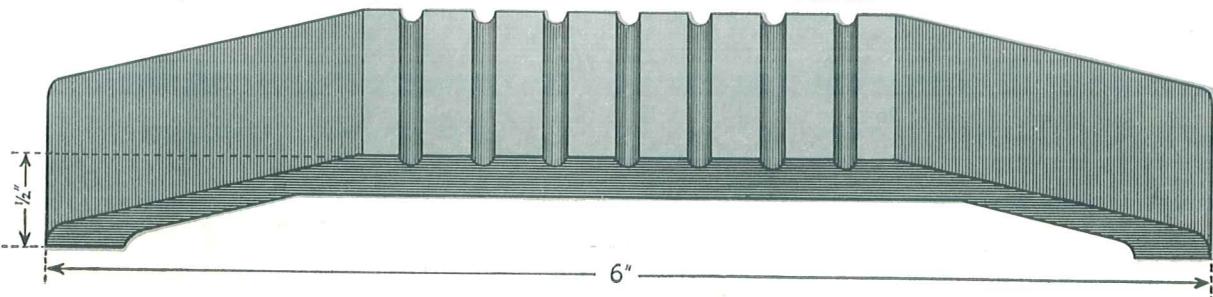
2" long x No. 14



We can also supply Lead Anchors or Tamps required for installing saddles.

No. 6921 (Alcoa No. 19049)

1.23 lb.

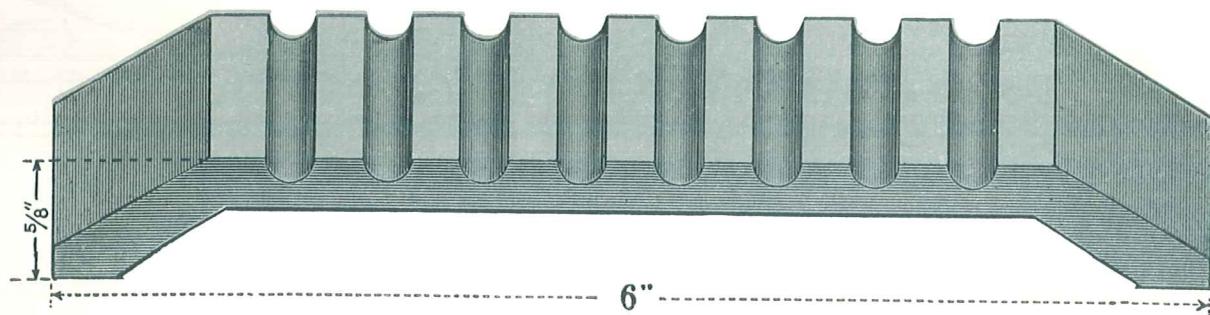


ARCHITECTURAL ALUMINUM DOOR SADDLES

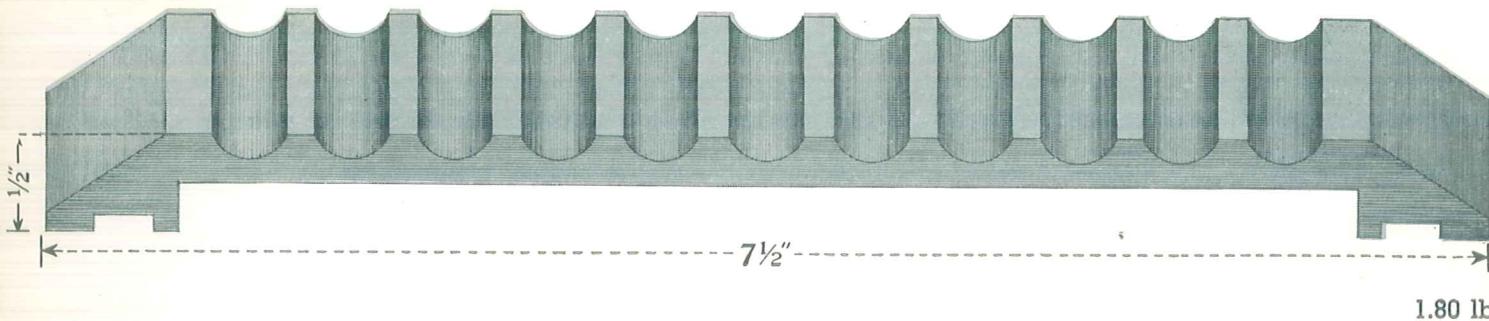
67

Alloy 6063-T5 (63S-T5)

No. 6920



No. 6919 (Alcoa No. 7032)

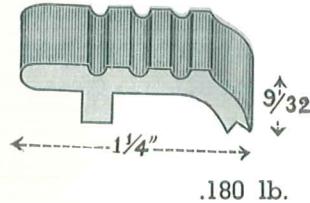


ARCHITECTURAL ALUMINUM WEATHERSTRIP DOOR SILLS

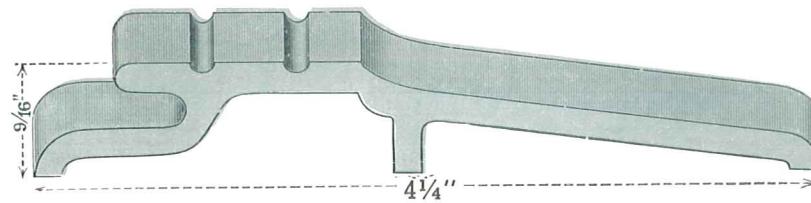


Bronze or Zinc Interlocking
Hook Strip. For use with
weatherstrip door sills.

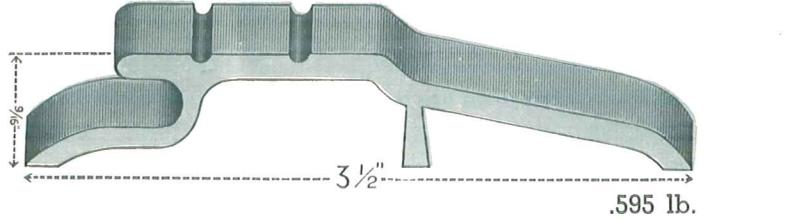
No. 6998 (Alcoa No. 10346)



No. 6991 (Alcoa No. 38649)



No. 6990 (Alcoa No. 10353)



Aluminum Door Saddles are made from a tough, heat treated, wear resisting Aluminum Alloy. Surface is free from imperfections. A highly polished finish can be produced by buffing.

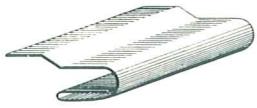
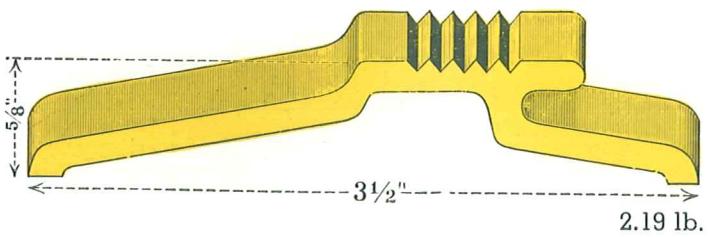
CARRIED IN STOCK IN LONG STRAIGHT BARS. CAN ALSO BE FURNISHED CUT TO SPECIFIED LENGTHS

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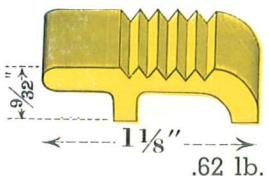
Architectural Bronze Weatherstrip Door Saddles

No. 4590



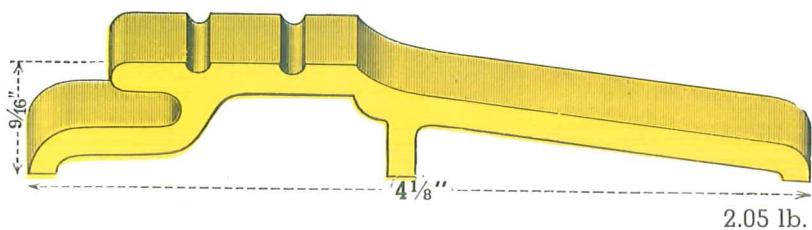
Bronze or Zinc Interlocking Hook Strip.
For use with weather-strip door sills.

No. 4598

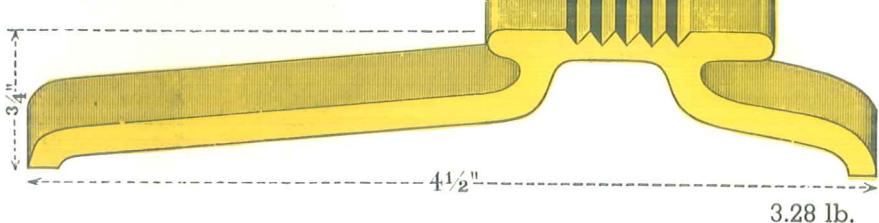


May be used alone or with
other saddle sections.

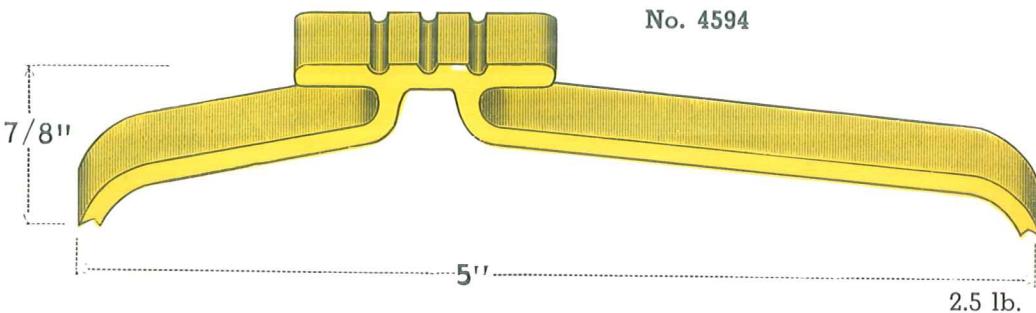
No. 4591



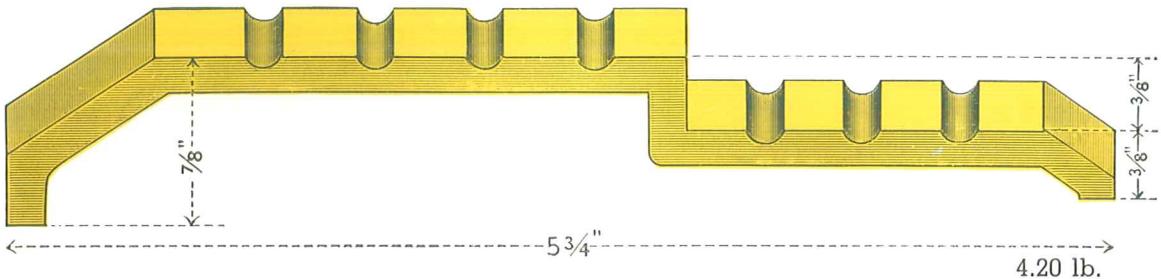
No. 4593



No. 4594



No. 4597 ROOF DOOR SADDLE



Architectural Bronze Door Saddles are furnished with a bright mill finish which usually makes polishing unnecessary.

CARRIED IN STOCK IN LONG, STRAIGHT BARS, CAN ALSO BE FURNISHED CUT TO SPECIFIED LENGTH • NO BREAKAGE • NO IMPERFECTIONS • NO STRAIGHTENING • NO PATTERNS • LOW IN COST • NO WAITING • NO ERRORS

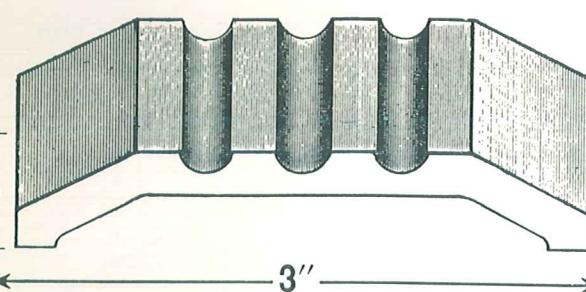
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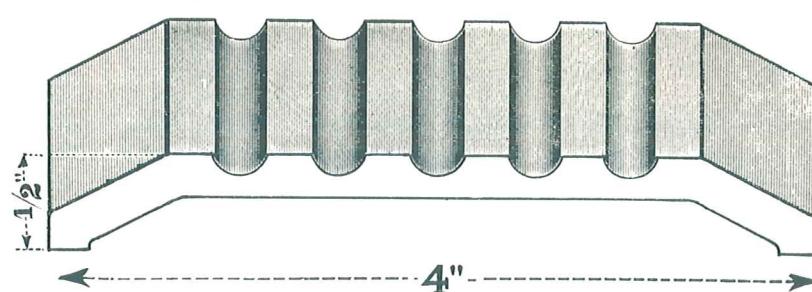
ROLLED STEEL DOOR SADDLES

69

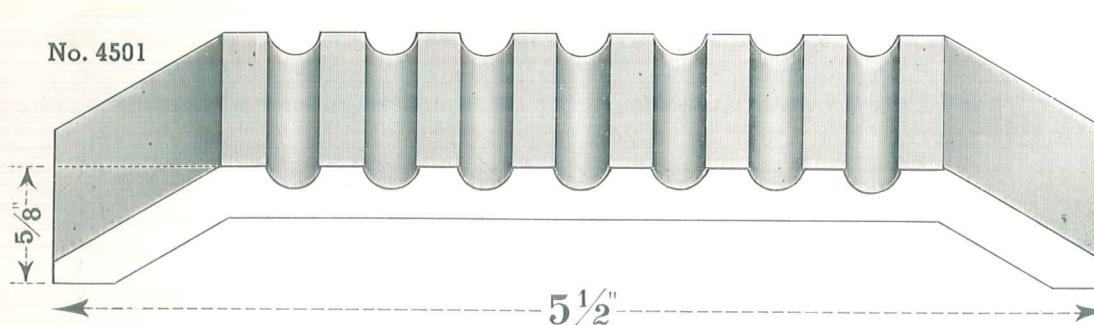
No. 4504



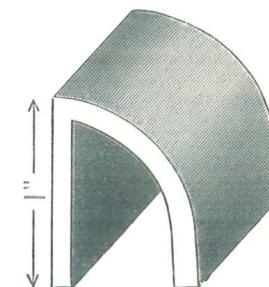
No. 4503



No. 4501

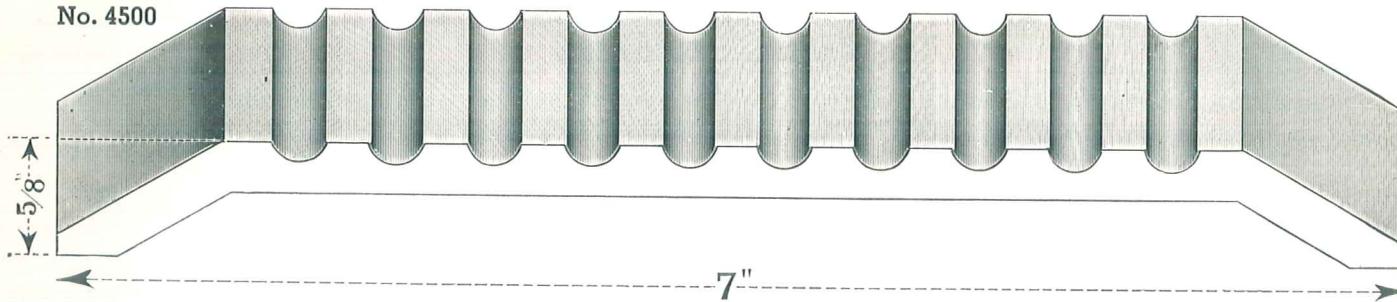


No. 4487



Bathroom Door Saddle

No. 4500



STRONGER AND CHEAPER THAN CAST IRON

Rolled Steel Door Saddles are specified for low cost public housing projects.

Carried in stock in long straight bars. Can also be furnished cut to specified lengths

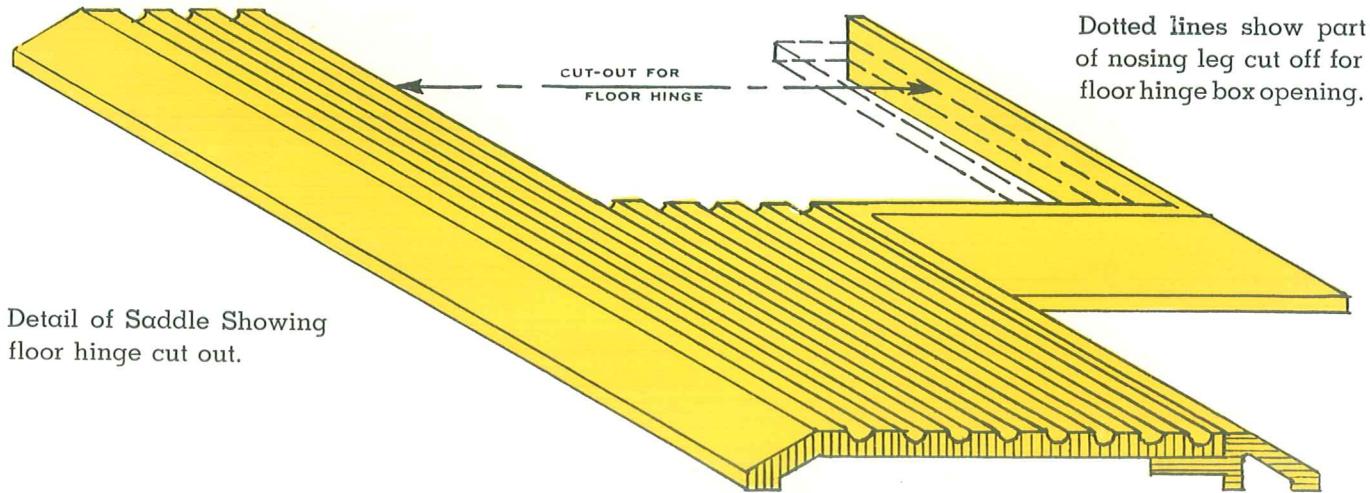
EXTRA WIDE DOOR SADDLES

Rolled Steel Door Saddles of any desired width may be assembled from sections described on page 73.

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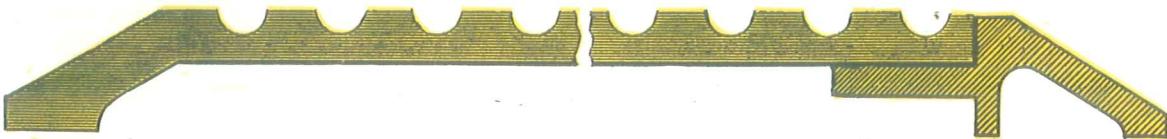
Typical Construction of Door Saddle with cut-out for Floor Hinges



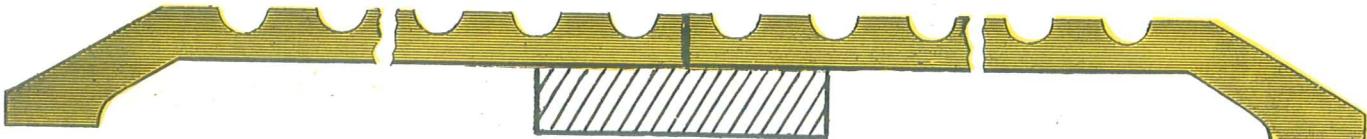
Dotted lines show part of nosing leg cut off for floor hinge box opening.

Assembled Aluminum or Architectural Bronze Door Saddles

Typical construction details



Detail of assembled Door Saddle.
Cut-outs for floor hinges can be made easily before assembling.

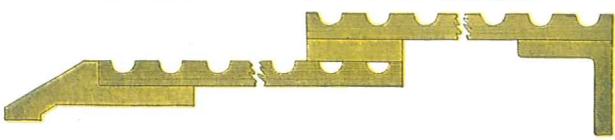


Detail of assembled Door Saddle up to 10" wide. Wider saddles may be constructed by adding a flat fluted section in the center. The pattern of all fluted sections being identical, the joints will not be apparent.

ASSEMBLED DOOR SADDLE, EXTRA WIDE



ASSEMBLED ROOF DOOR SADDLE



ASSEMBLED DOOR SADDLE WITH GROOVE
FOR SLIDING DOOR

Door Saddles of extreme width may be constructed by using two or more fluted flat sections side by side, with a plate underneath.

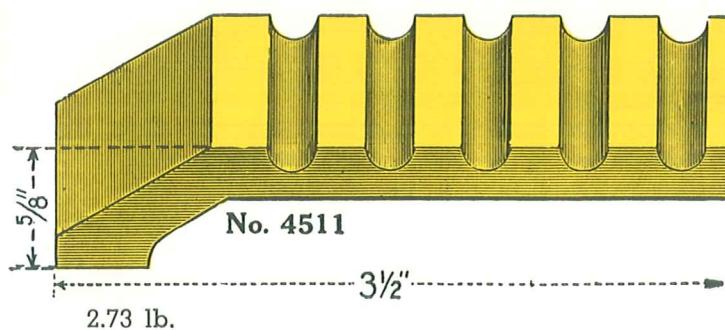
The pattern of all fluted sections being identical, the joint will not be apparent.

Saddles with double grooves for double sliding doors or screen doors may be assembled by using our double groove sections. See page 76.

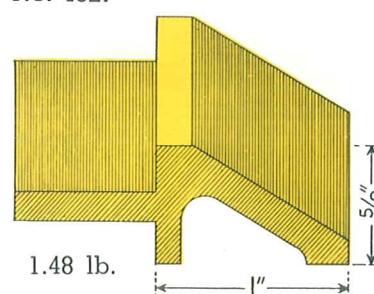
SECTIONS FOR ASSEMBLED DOOR SADDLES

Architectural Bronze

71

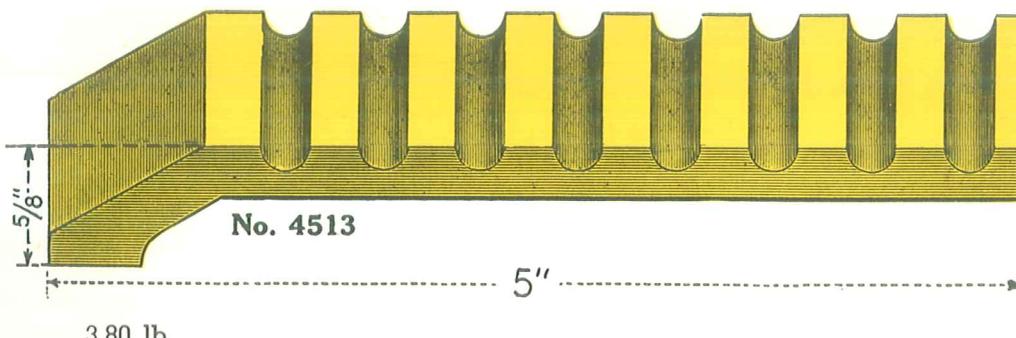
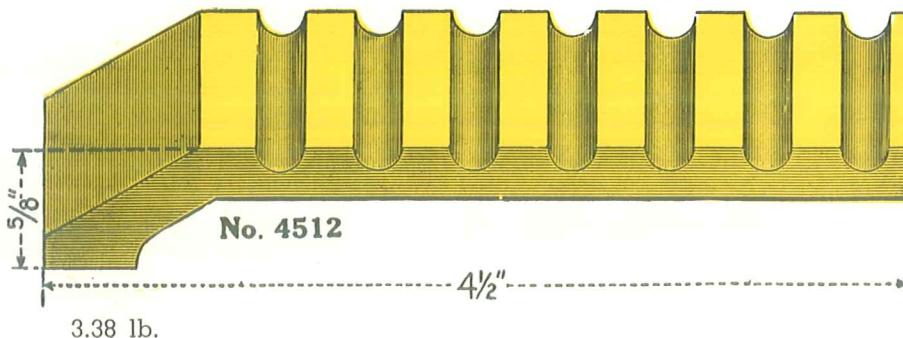


No. 4527



BEVEL END SECTION

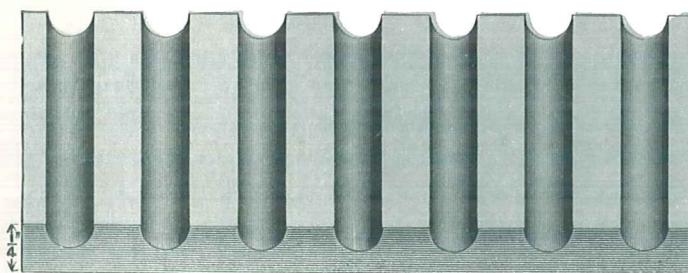
For floor hinge saddles, the flange of this section is removed along hinge box opening.



.10 lb.

1/4" Half Round
for filling in grooves.

Architectural Aluminum Alloy 6063-T5 (63S-T5)



FLAT FLUTED SECTIONS

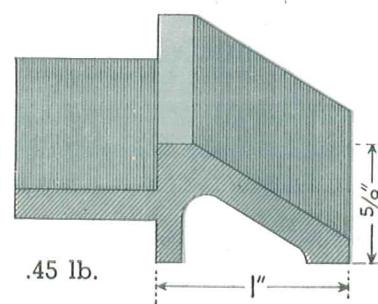
No. 6970—1 1/2" wide—.361 lb. per ft.

No. 6971—2 " wide—.482 lb. per ft.

No. 6973—3 " wide—.723 lb. per ft.

No. 6975—4 " wide—.964 lb. per ft.

No. 6927



BEVEL END SECTION

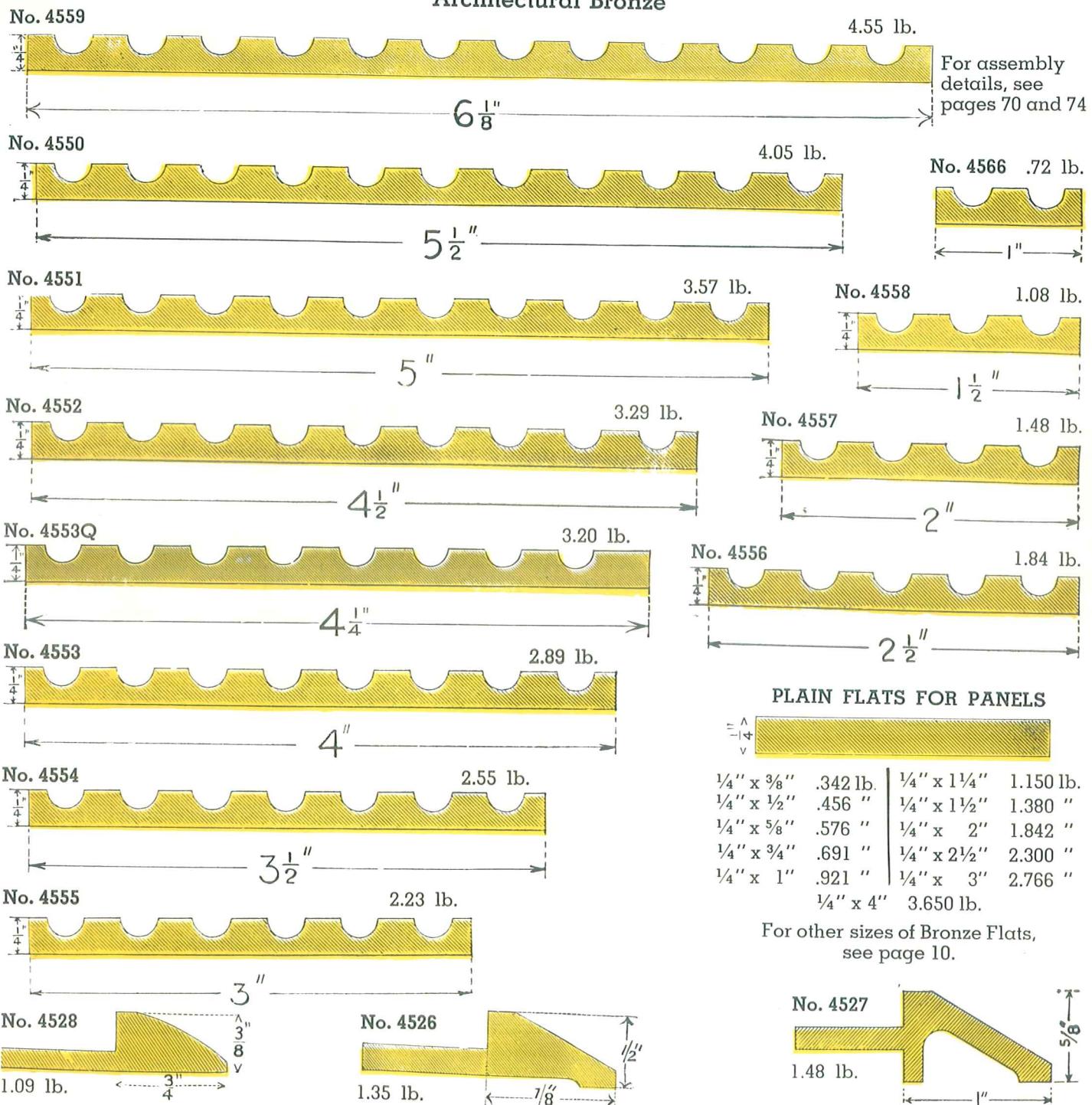
For floor hinge saddles, the flange of this section is removed along hinge box opening.

FOR FULL SIZE DETAILS OF FLAT FLUTED SECTIONS, SEE PAGE 79.

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SECTIONS FOR ASSEMBLED DOOR SADDLES AND FOR EXPANSION JOINTS

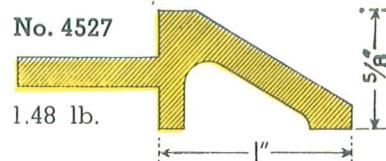
Architectural Bronze



PLAIN FLATS FOR PANELS

$\frac{1}{4}'' \times \frac{3}{8}''$	.342 lb.	$\frac{1}{4}'' \times 1\frac{1}{4}''$	1.150 lb.
$\frac{1}{4}'' \times \frac{1}{2}''$	.456 "	$\frac{1}{4}'' \times 1\frac{1}{2}''$	1.380 "
$\frac{1}{4}'' \times \frac{5}{8}''$	.576 "	$\frac{1}{4}'' \times 2''$	1.842 "
$\frac{1}{4}'' \times \frac{3}{4}''$	.691 "	$\frac{1}{4}'' \times 2\frac{1}{2}''$	2.300 "
$\frac{1}{4}'' \times 1''$	.921 "	$\frac{1}{4}'' \times 3''$	2.766 "
$\frac{1}{4}'' \times 4''$	3.650 lb.		

For other sizes of Bronze Flats,
see page 10.



CARRIED IN STOCK IN LONG, STRAIGHT BARS, CAN ALSO BE FURNISHED CUT TO SPECIFIED LENGTHS
NO BREAKAGE • LOW IN COST • NO IMPERFECTIONS • NO STRAIGHTENING • NO WAITING
NO PATTERNS • NO ERRORS

These Sections are furnished with a bright mill finish which makes Polishing unnecessary in many cases.

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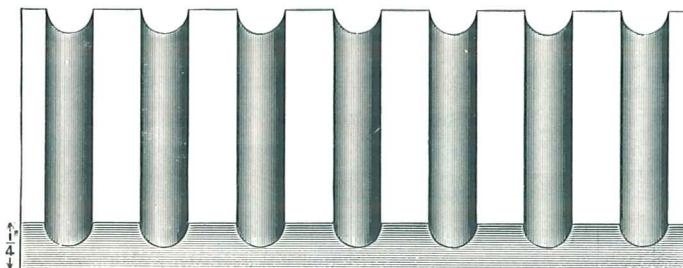
SECTIONS FOR ASSEMBLED DOOR SADDLES

73

AND FOR EXPANSION JOINTS

Rolled Steel

FLAT FLUTED SECTIONS



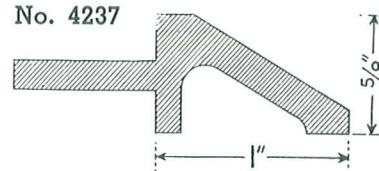
No. 4540—1½" wide
No. 4541—2" wide
No. 4542—2½" wide
No. 4543—3" wide

No. 4544—3½" wide
No. 4545—4" wide
No. 4546—4½" wide

For full size details of Flat Fluted Sections, see page 78.

BEVEL END SECTION

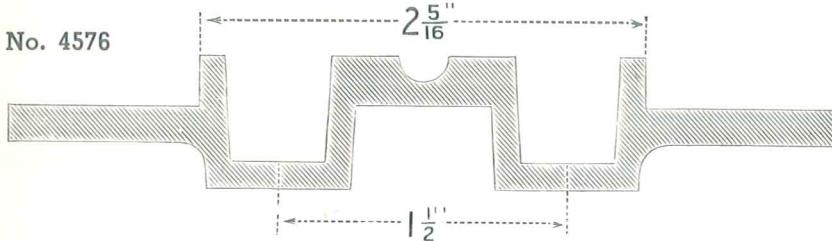
No. 4237



For floor hinge saddles the flange of this section is removed along hinge box opening.

DOUBLE GROOVE SECTIONS

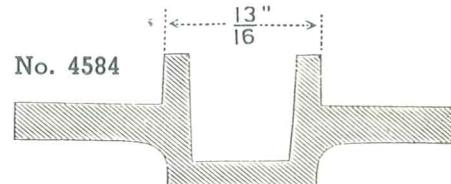
No. 4576



Furnished in three sizes.
For full size details, see page 78.

SINGLE GROOVE SECTION

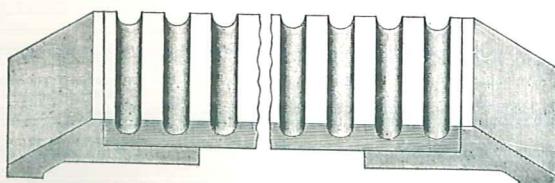
No. 4584



Assembled Rolled Steel Door Saddles

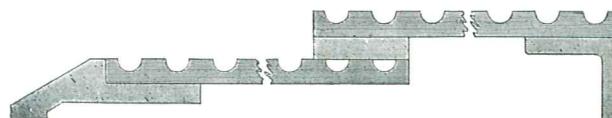
Typical Construction Details

ASSEMBLED DOOR SADDLE



Door saddles of extreme width may be constructed by using two or more fluted flat sections side by side. The pattern of all fluted sections being identical, the joint will not be apparent.

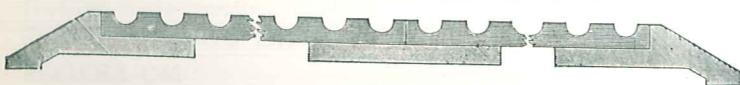
ASSEMBLED ROOF DOOR SADDLE



ASSEMBLED DOOR SADDLE WITH GROOVE FOR SLIDING DOOR



ASSEMBLED DOOR SADDLE, EXTRA WIDE



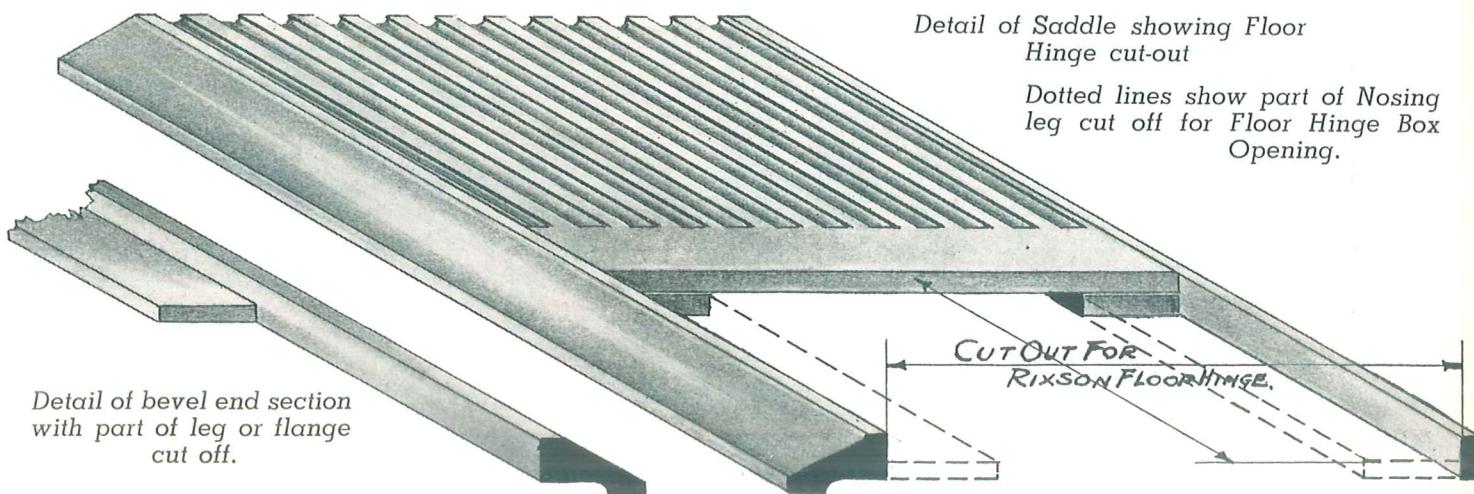
Saddles with double grooves for double doors or screen doors may be assembled by using our double groove sections.

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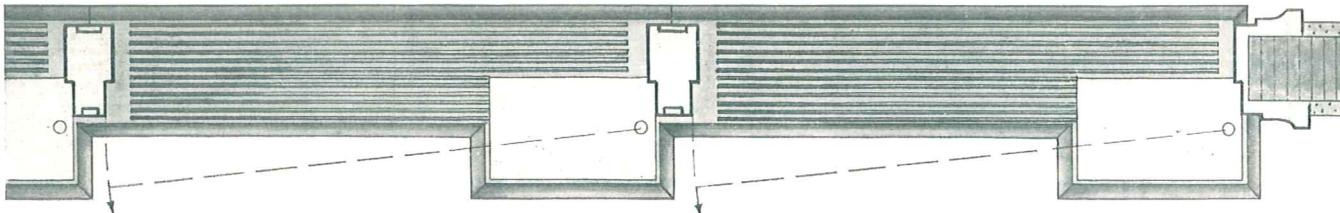
Typical Construction of Door Saddle with cut-out for Floor Hinges

ROLLED STEEL — ARCHITECTURAL BRONZE — ARCHITECTURAL ALUMINUM

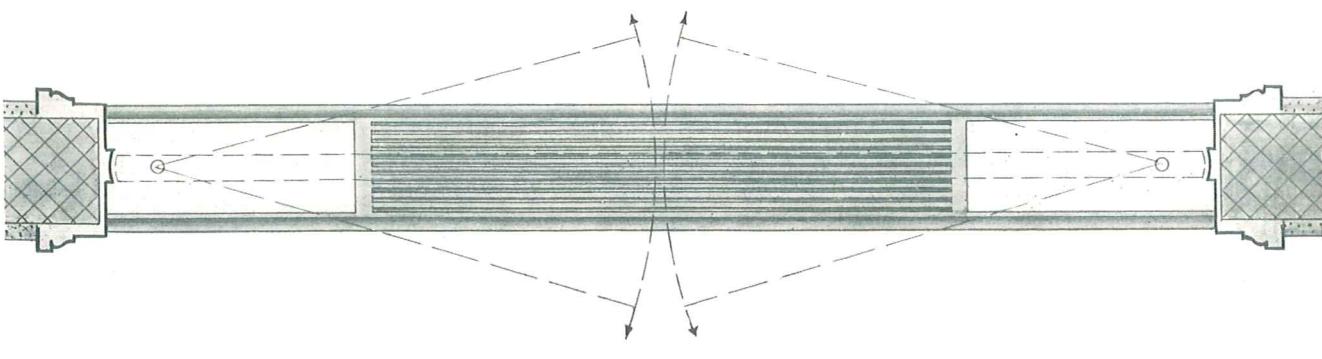


Thresholds with cut-outs for Mullions or Columns may be constructed easily and at low cost. The flat members (fluted or plain) may be cut out or notched out to fit the Mullion, Column or Jamb BEFORE assembling. Saddles constructed in this manner will fit perfectly and may be set at a minimum expense for field labor.

Typical Construction of Door Saddle with Box cut-outs for Floor Hinges and cut-outs for Mullions or Columns



Typical Construction of Door Saddle with straight cut-outs for Floor Hinges



NO BREAKAGE
NO PATTERNS

NO IMPERFECTIONS
LOW IN COST

NO WAITING

NO STRAIGHTENING
NO ERRORS

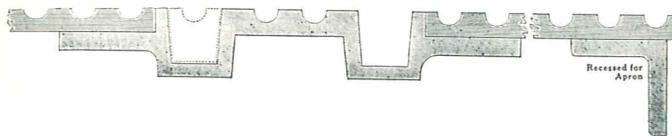
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TYPICAL CONSTRUCTION OF ELEVATOR SADDLES

ROLLED STEEL OR ARCHITECTURAL BRONZE

75

DOUBLE GROOVE SADDLE



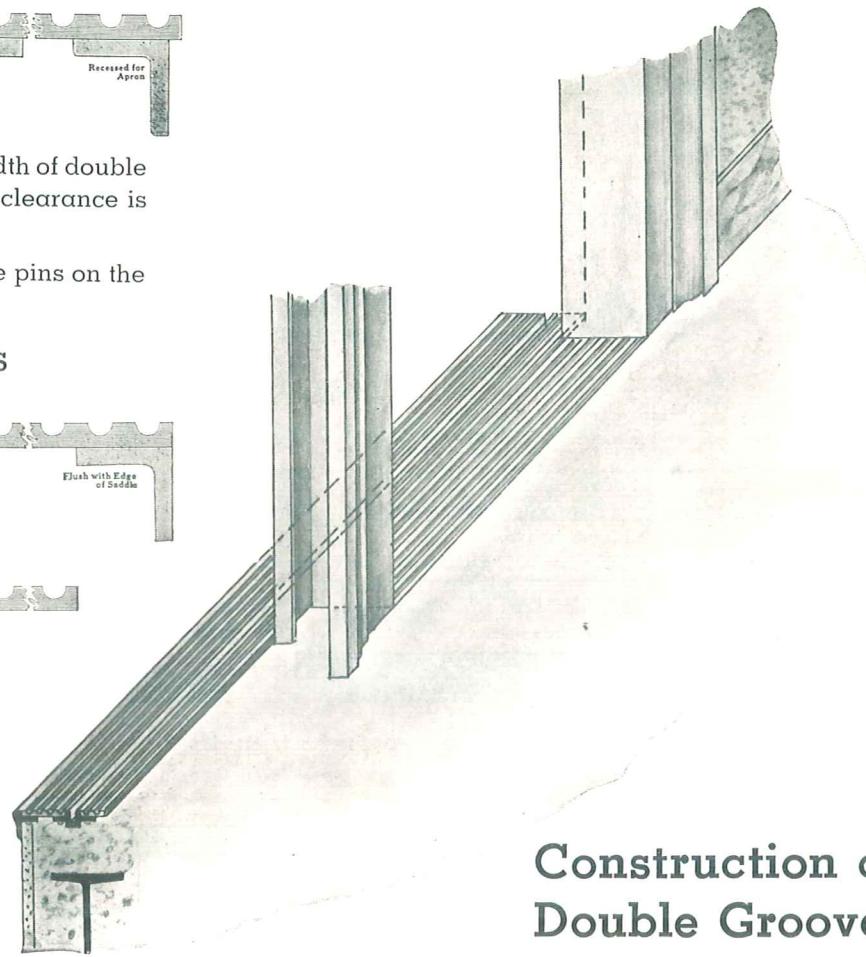
The thickness of the doors governs the width of double groove section to be used. As a rule $\frac{1}{4}$ " clearance is allowed between doors.

If doors are slightly thicker or thinner, the pins on the bottom of door are set a trifle off center.

SINGLE GROOVE SADDLES

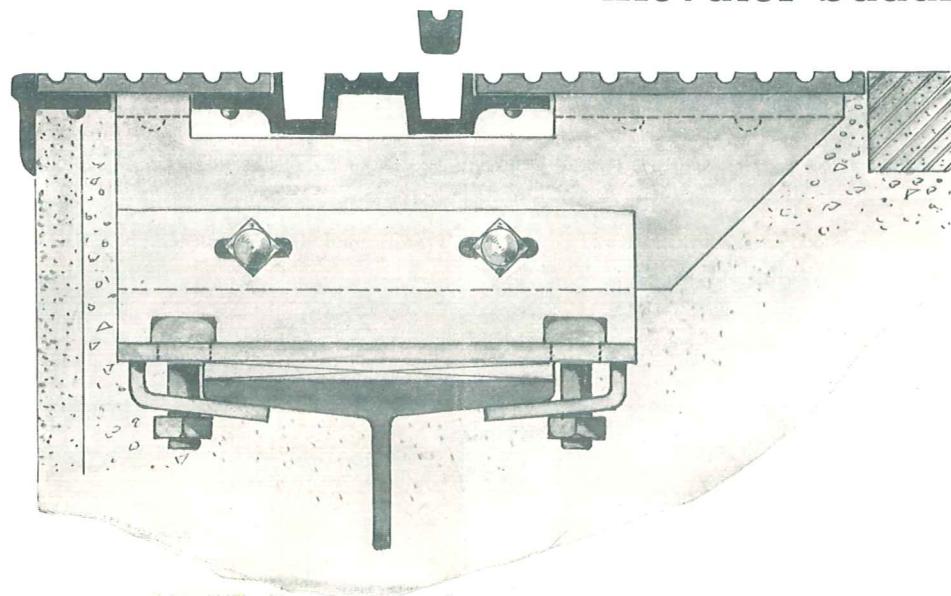


Detail of single groove elevator saddle extending behind partition.



Construction of Double Groove Elevator Saddle

For erecting Elevator Saddles we recommend two angles, each with slotted holes, fastened in the shape of a Z to the bottom of the saddle. The legs of the bottom angles are fastened to the floor beam or channel, the saddle is then leveled between the jamb, the bolts and nuts connecting the two Z-shaped angles are tightened and the concrete flushed underneath.

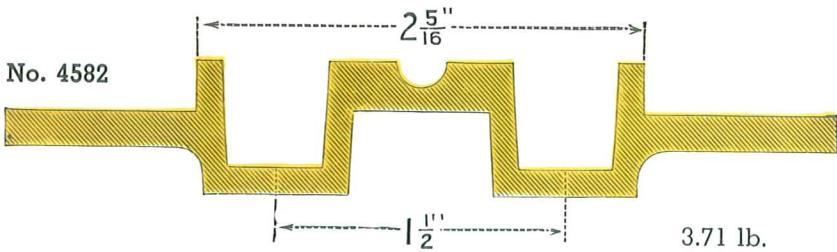


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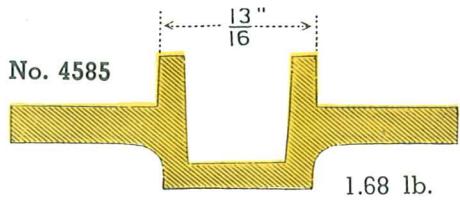
New Jersey Phone: GEneva 8-4600 • New York Phone: OXFORD 5-2236 • Philadelphia Phone: MArket 7-7596

76 Architectural Bronze Sections for Elevator Door Saddles

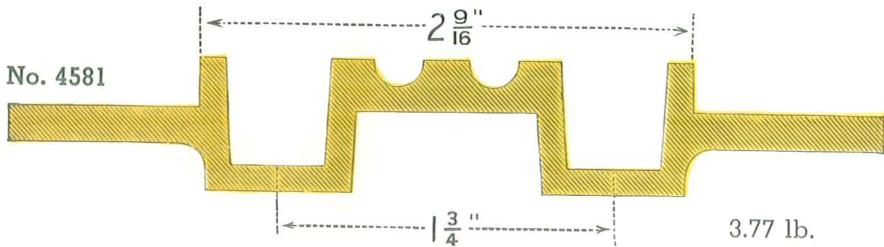
DOUBLE GROOVE SECTION
(For 1 $\frac{1}{4}$ " Thick Doors)



SINGLE GROOVE SECTION

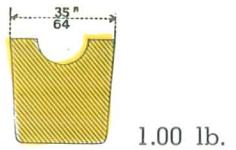


DOUBLE GROOVE SECTION
(For 1 $\frac{1}{2}$ " Thick Doors)



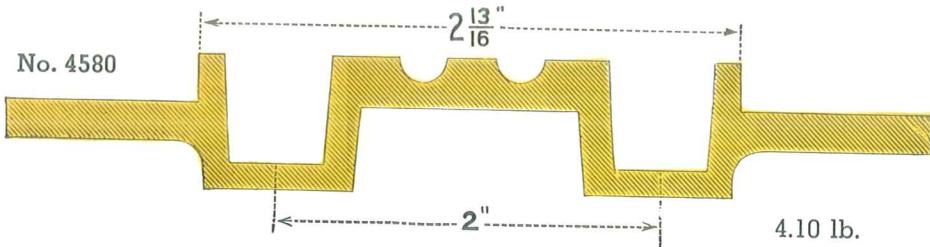
INSERT SECTION

No. 4588

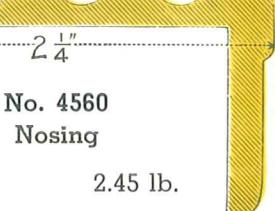
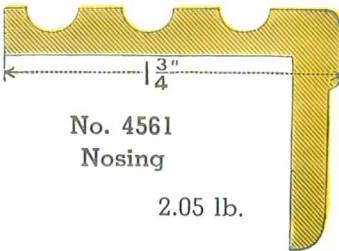


For filling up part of groove and for door stop.

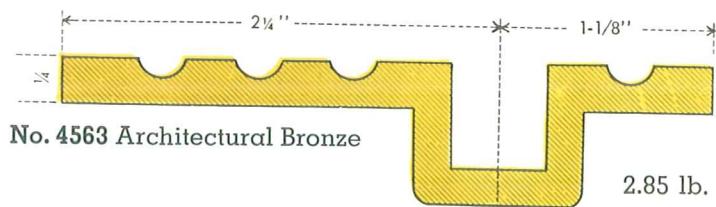
DOUBLE GROOVE SECTION
(For 1 $\frac{3}{4}$ " Thick Doors)



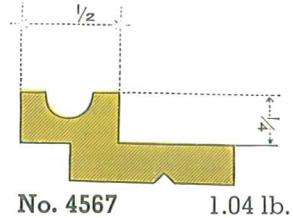
If doors are slightly thicker or thinner the guide pins in the bottom of the door are set a trifle off center. As a rule, $\frac{1}{4}$ " clearance is allowed between doors.



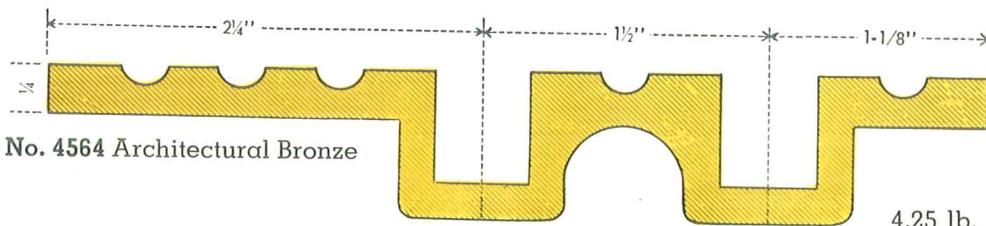
Elevator Car Saddles



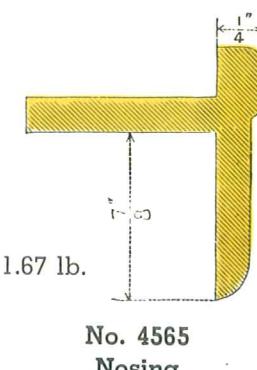
No. 4563 Architectural Bronze



No. 4567



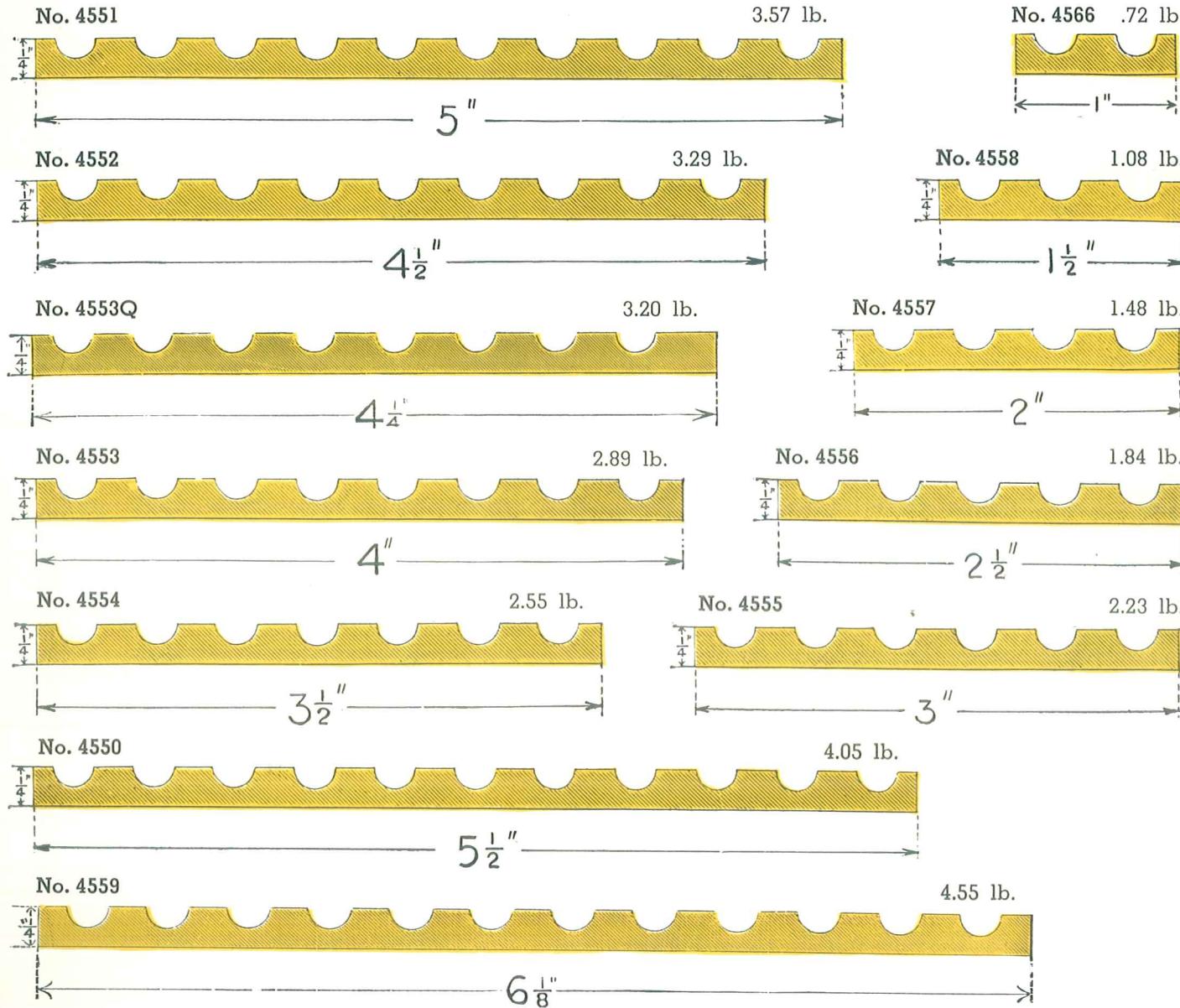
No. 4564 Architectural Bronze



No. 4565
Nosing

Architectural Bronze Sections for Elevator Door Saddles

77

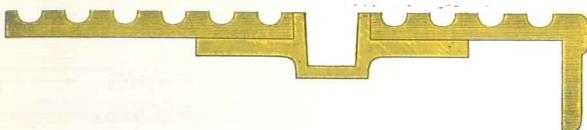


Typical Construction of Architectural Bronze Elevator Saddles

ELEVATOR CAR SADDLE



SINGLE GROOVE SADDLE WITH NOSING



DOUBLE GROOVE SADDLE



SADDLE WITHOUT GROOVES



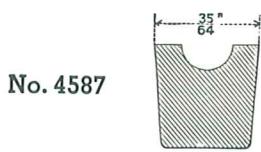
For additional details, see page 75.

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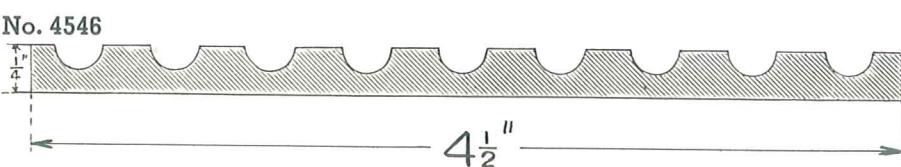
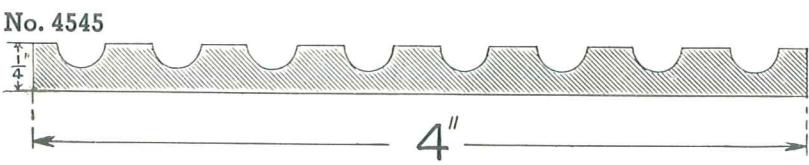
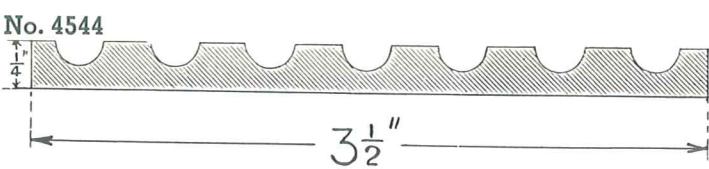
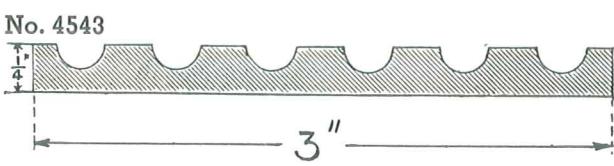
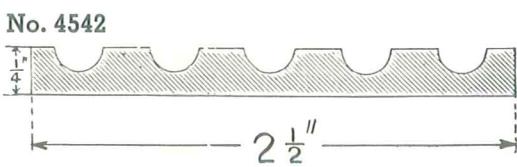
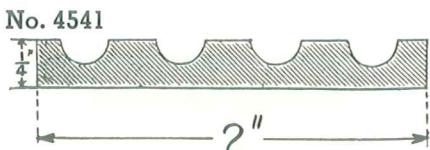
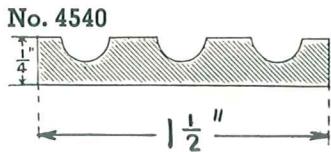
Rolled Steel Sections for Elevator Door Saddles

INSERT SECTION

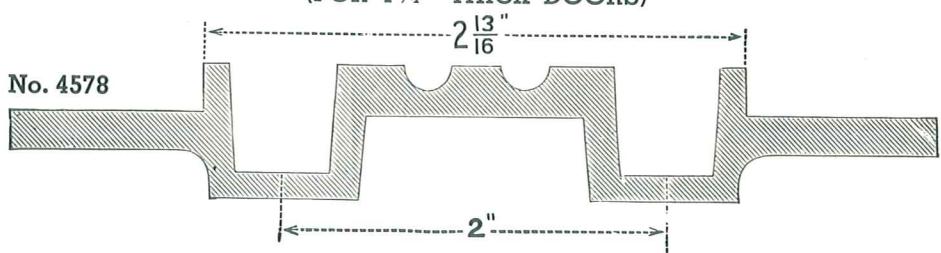


No. 4587

For filling up part of groove and for door stop.

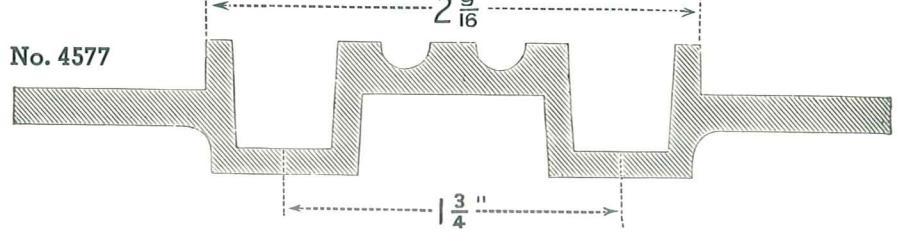


DOUBLE GROOVE SECTIONS (FOR 1 1/4" THICK DOORS)

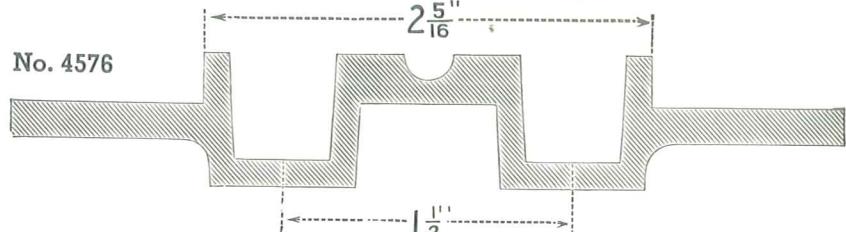


No. 4577

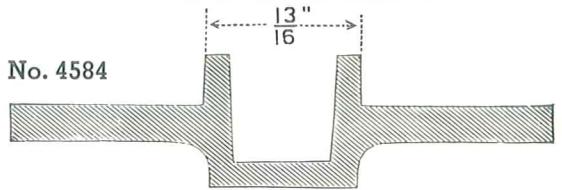
(FOR 1 1/2" THICK DOORS)



(FOR 1 1/4" THICK DOORS)



SINGLE GROOVE SECTION



No. 4584

NO BREAKAGE
NO PATTERNS

NO MACHINING OF GROOVES
NO IMPERFECTIONS
NO WAITING

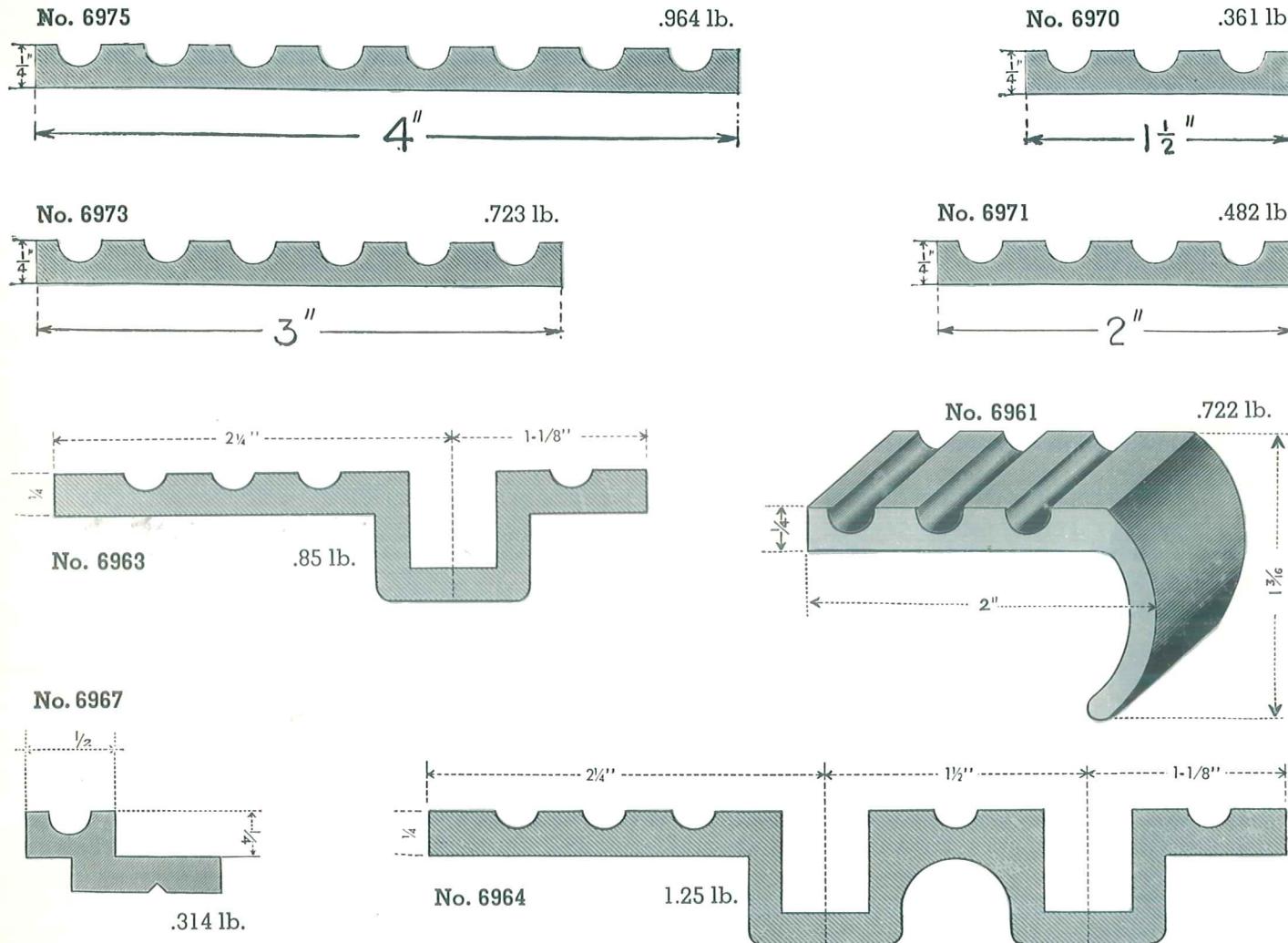
NO STRAIGHTENING
NO COSTLY ERRORS

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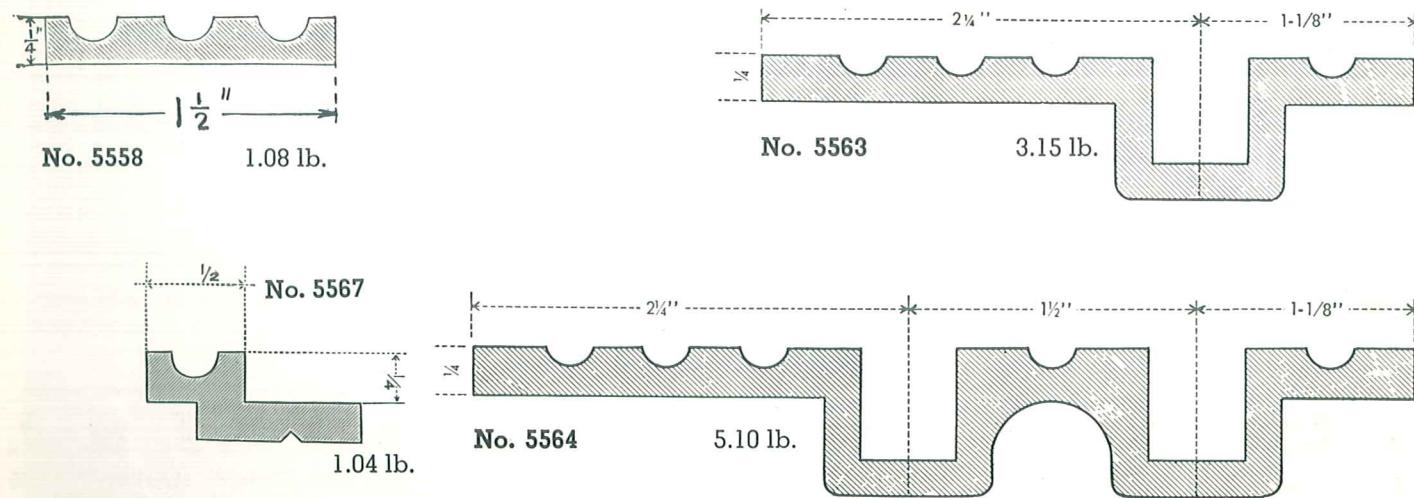
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Architectural Aluminum Sections for Door and Elevator Saddles

Alloy 6063-T5 (63S-T5)

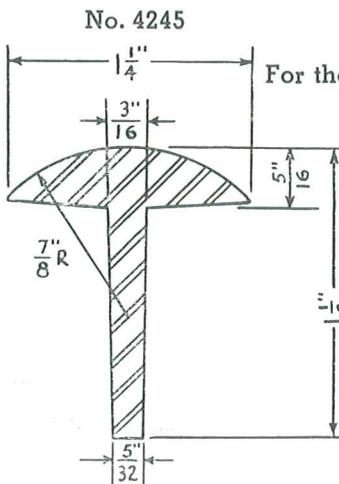


Nickel Silver (white bronze) Elevator Saddles



HOT ROLLED GALVANIZED STEEL CURB BAR

with anchors



For the protection of Stair Tread and Platform Edges
Curbs, Column Corners, etc.

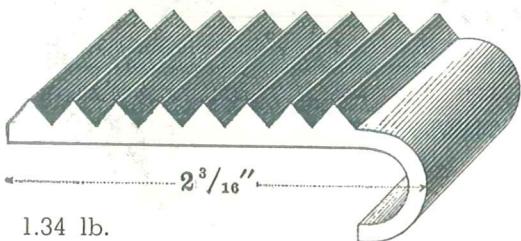


No. 4245

Carried in stock in lengths of 10 feet.

NON-SLIP EDGE NOSING

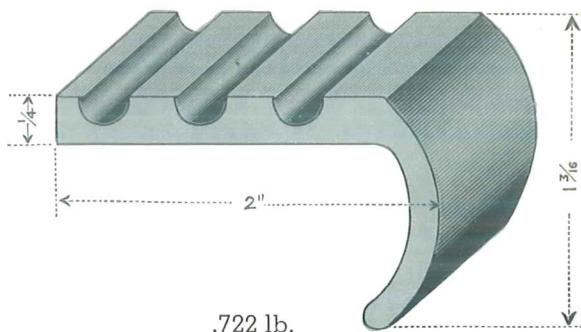
Rolled Steel — No. 4508



1.34 lb.

Nosing No. 4508 is carried in stock in lengths of about 20 feet. Can also be furnished cut to specified lengths.

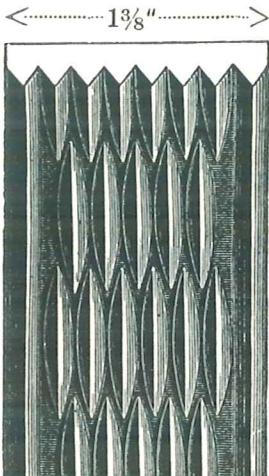
Aluminum — No. 6961



.722 lb.

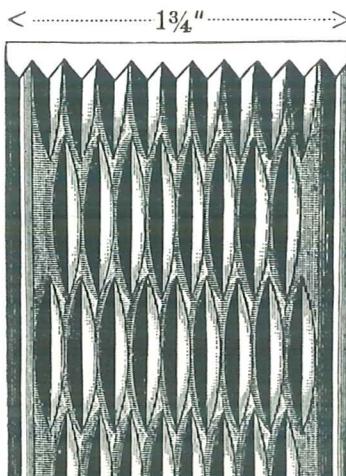
NON-SLIP TREADS—ROLLED STEEL

No. 4497



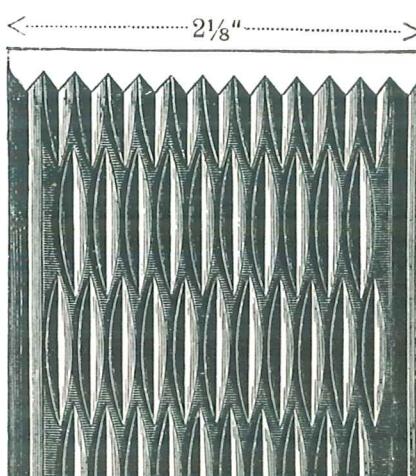
.54 lb.

No. 4498



.81 lb.

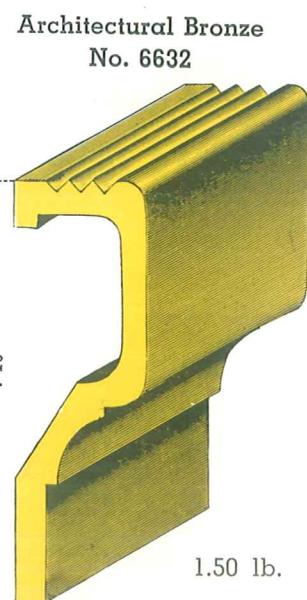
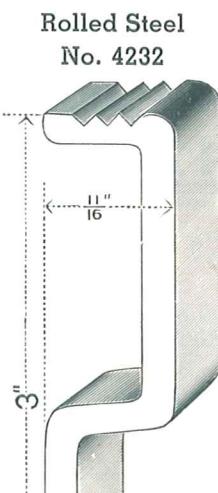
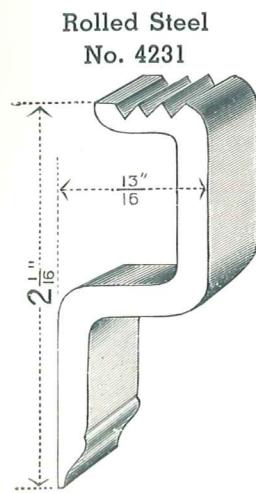
No. 4499



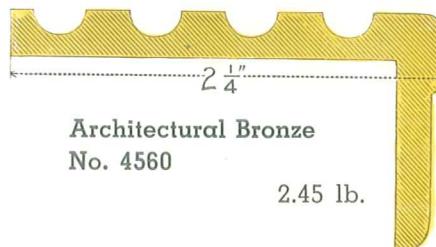
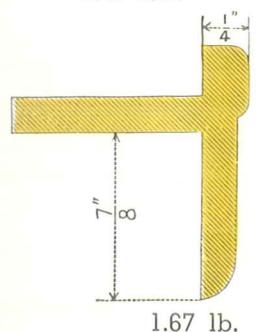
.99 lb.

NOSINGS FOR TREADS AND PLATFORMS

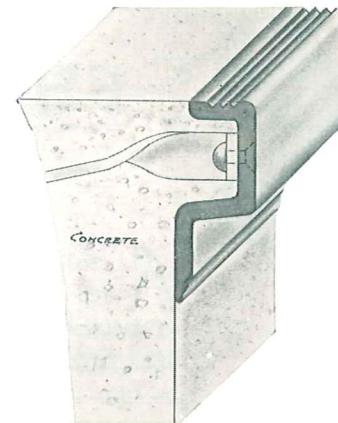
81



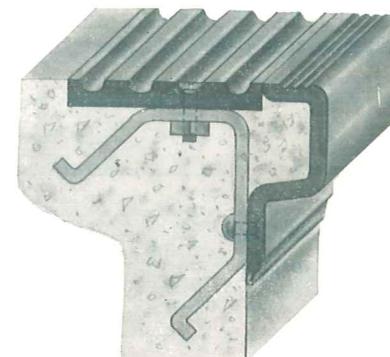
Architectural Bronze
No. 4565



Details below are one half actual size.



Detail of Nosing applied to concrete riser and step (anchors not furnished)



Detail of Nosing and Flat Fluted Section applied to concrete riser and tread (anchors not furnished).



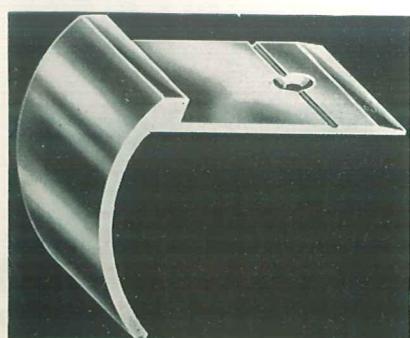
Detail of Flat Fluted Section with Nosing No. 4568.

POLISHED ALUMINUM NOSINGS

12 ft. lengths—with screw holes

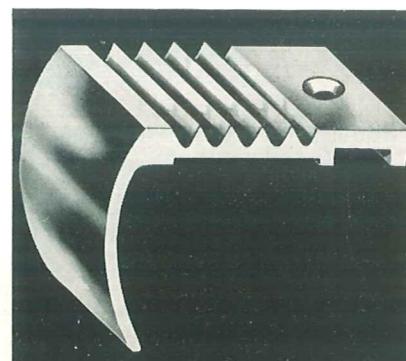
Polished Aluminum
No. 5002-L
1 1/8" under flange

for 1/8" material



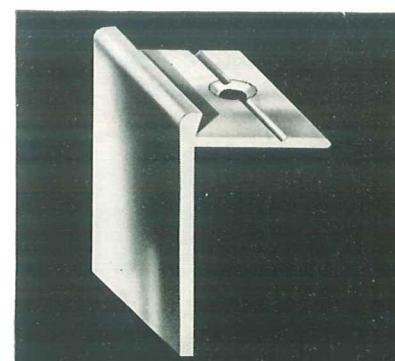
Polished Aluminum
No. 5702-J
1" under flange

for 1/8" material



Polished Aluminum
No. 5312-K
1-1/16" under flange

for 1/8" material



MOULDINGS— FUNCTIONAL SHAPES

ALL rolled and extruded shapes in this section are carried in stock in long random lengths. Bronze and Aluminum shapes can also be furnished cut to specified lengths. Weights are shown in pounds per lineal foot. These weights are approximate and, while they have been ascertained with care, they cannot be guaranteed. Materials sold by the pound are invoiced according to actual scale weight.

Illustrations are actual size except as noted.

Every item listed in this section is carried in stock in substantial quantities. Shipment usually can be made immediately upon receipt of order.

All bronze items are of matching color. All aluminum extrusions are alloy 6063 (63-S). This alloy is recommended for architectural work because of its bright color, ease of fabrication and corrosion resistance. It is suitable for alumiliting.

Since all our bronze and aluminum sections are of uniform composition, the chance of accidental mis-matching of alloys or colors through shipping errors is eliminated.

Subjects covered in this section:

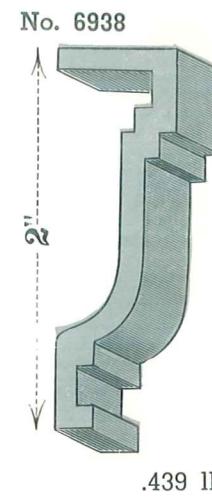
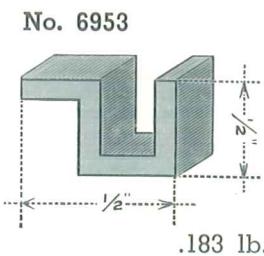
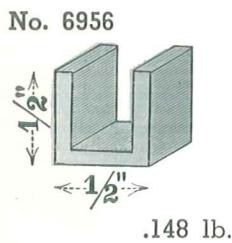
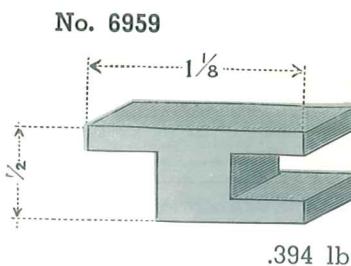
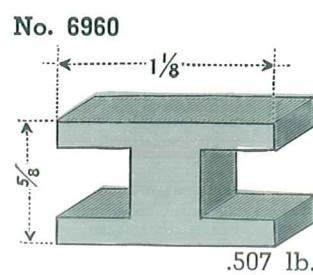
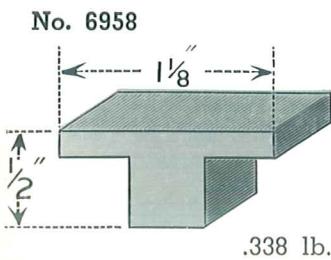
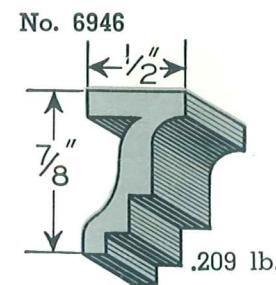
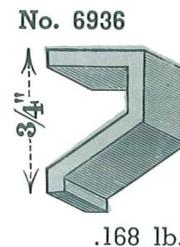
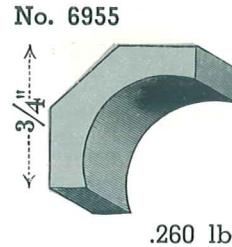
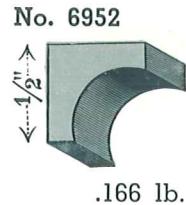
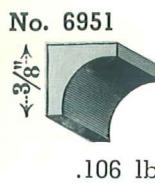
Rolled Steel	Page No.	Architectural Bronze	Page No.
Channel Stringer Mouldings	95	Mouldings and Glass Stops	84
Plate Stringer Mouldings	93, 96	Door Edgings	84, 85
Wall Stringer Mouldings	96	Nosings	84
Built-up Cornice Sections	97, 98	Tie Band Strip	84
Glass Stops and Window Shapes	90, 91	Aluminum	
Skylight Bars	99	Mouldings and Glass Stops	83
Loafers Rail	101	Door Edgings	88
Ornamented Mouldings	100	Nosings	88
Miscellaneous Mouldings	98, 99, 101	Window Sills	86, 87
Light Gauge Mouldings	99	Gravel Stops	87

Also see sections on "Railings," "Saddles-Nosings," "Tubing, Shapes, Bars"

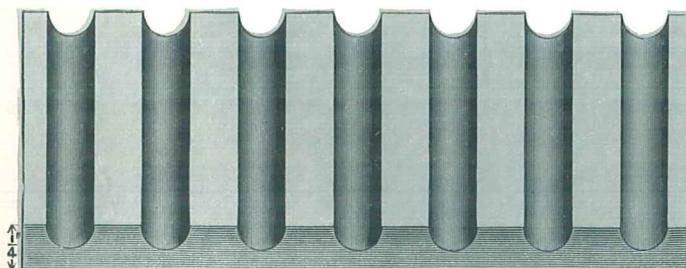
Aluminum Mouldings and Glass Framing Sections

83

Alloy 6063 (63S)—Suitable for Alumiliting

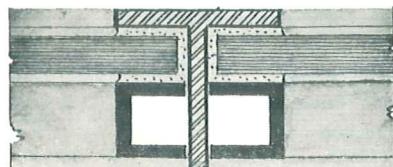


FLAT FLUTED SECTIONS

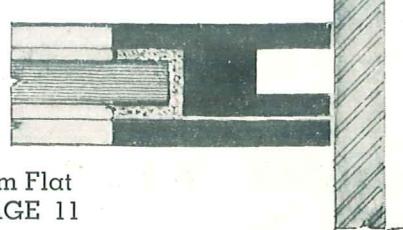
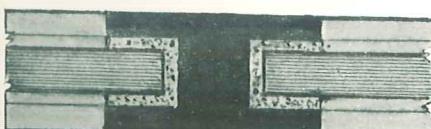
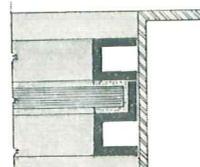


No. 6970— $1\frac{1}{2}$ " wide .361 lb. No. 6973— 3 " wide .723 lb.
No. 6971— 2 " wide .482 lb. No. 6975— 4 " wide .964 lb.

Channel
No. 6956 used
with $1\frac{1}{8}'' \times 1\frac{1}{8}'' \times \frac{1}{8}''$
Aluminum Tee



Channel
No. 6956 used
with section
No. 6953



Sections 6958, 6959 and 6960 used with $1\frac{1}{8}'' \times \frac{1}{8}''$ Aluminum Flat
FOR OTHER ALUMINUM BARS AND SHAPES, SEE PAGE 11

ARCHITECTURAL BRONZE MOULDINGS

No. 6101



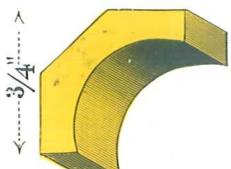
.32 lb.

No. 6102



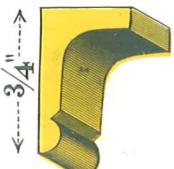
.50 lb.

No. 6105



.67 lb.

No. 6121



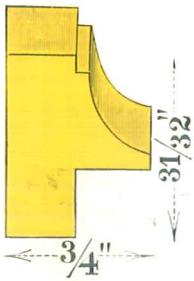
.60 lb.

No. 6130



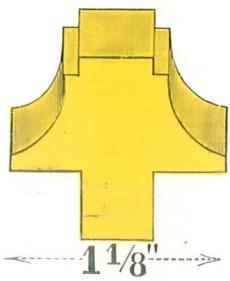
.70 lb.

No. 6620

 $3\frac{1}{32}$ "

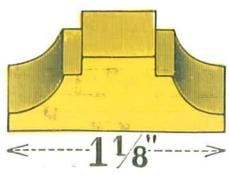
1.71 lb.

No. 6621

 $1\frac{1}{8}$ "

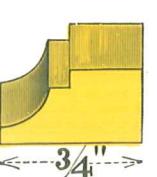
2.06 lb.

No. 6474

 $1\frac{1}{8}$ "

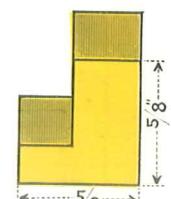
.99 lb.

No. 6473

 $\frac{3}{4}$ "

.76 lb.

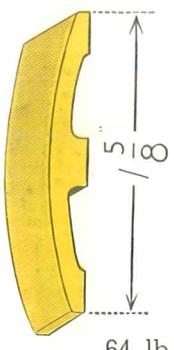
No. 6470

 $5\frac{7}{8}$ "

.93 lb.

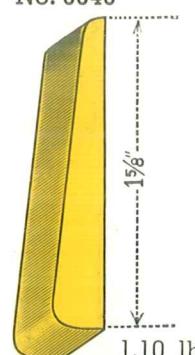
Sections 6473, 6474, 6620 and 6621
form perfect Mitres.

No. 6647



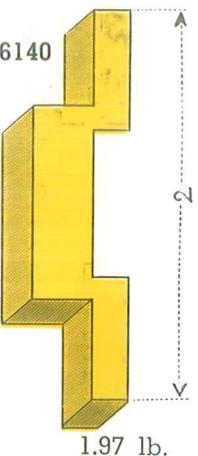
.64 lb.

No. 6648



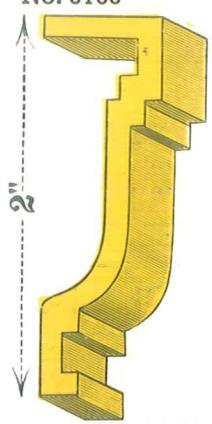
1.10 lb.

No. 6140



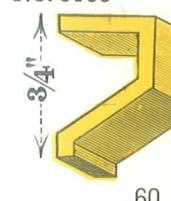
1.97 lb.

No. 6138



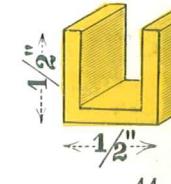
1.26 lb.

No. 6136



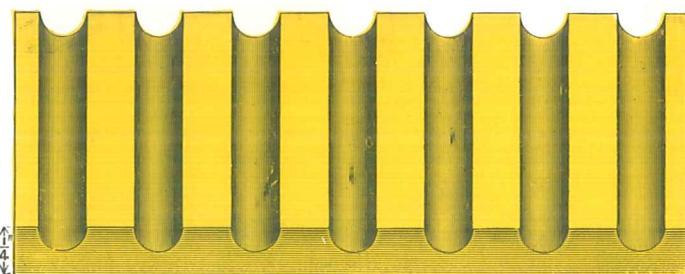
.60 lb.

No. 6139



.44 lb.

FLAT FLUTED SECTIONS



No. 4556-1" wide
No. 4558-1½" "
No. 4557-2" "
No. 4556-2½" "

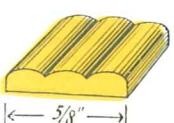
No. 4555-3" wide
No. 4554-3½" "
No. 4553-4" "
No. 4553-Q-4½" "

No. 4552-4½" wide
No. 4551-5" "
No. 4550-5½" "
No. 4559-6½" "

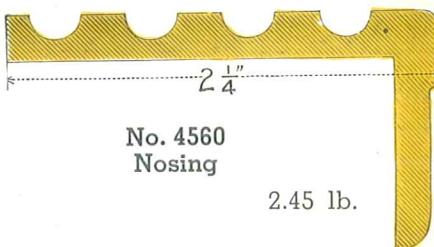
Flat Fluted Sections may be used for pilasters or mullions or as decorative trim.

For full size details and weights, see page 77.

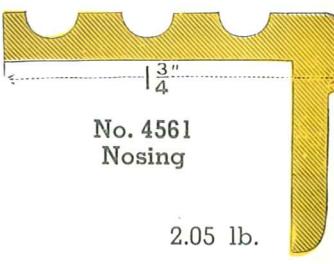
No. 6108



.263 lb.

No. 4560
Nosing

2.45 lb.

No. 4561
Nosing

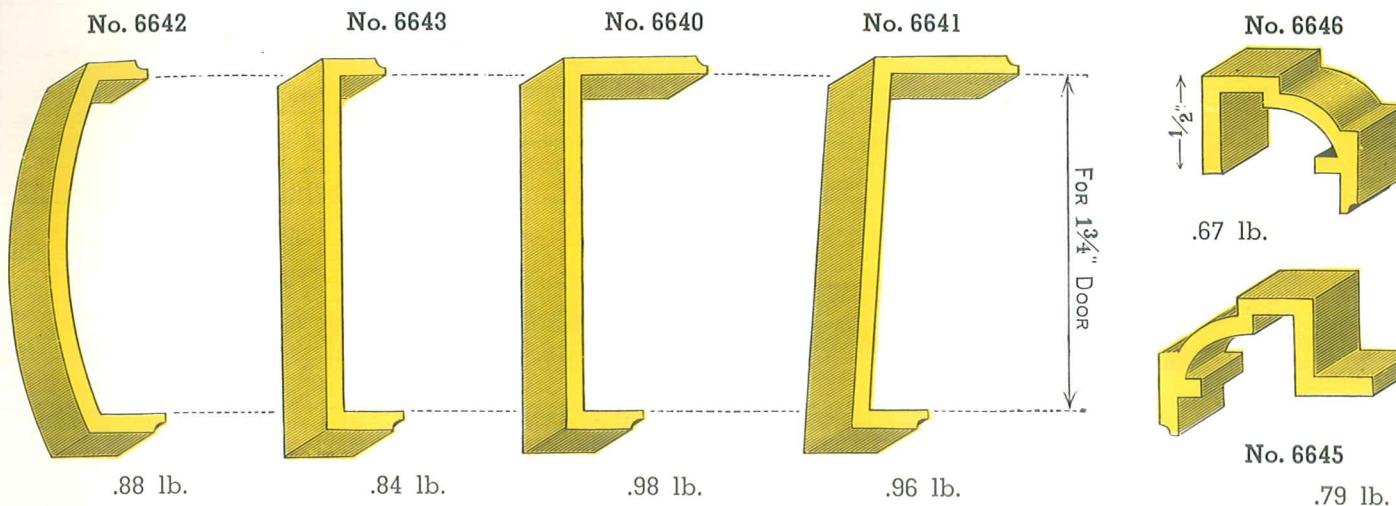
2.05 lb.

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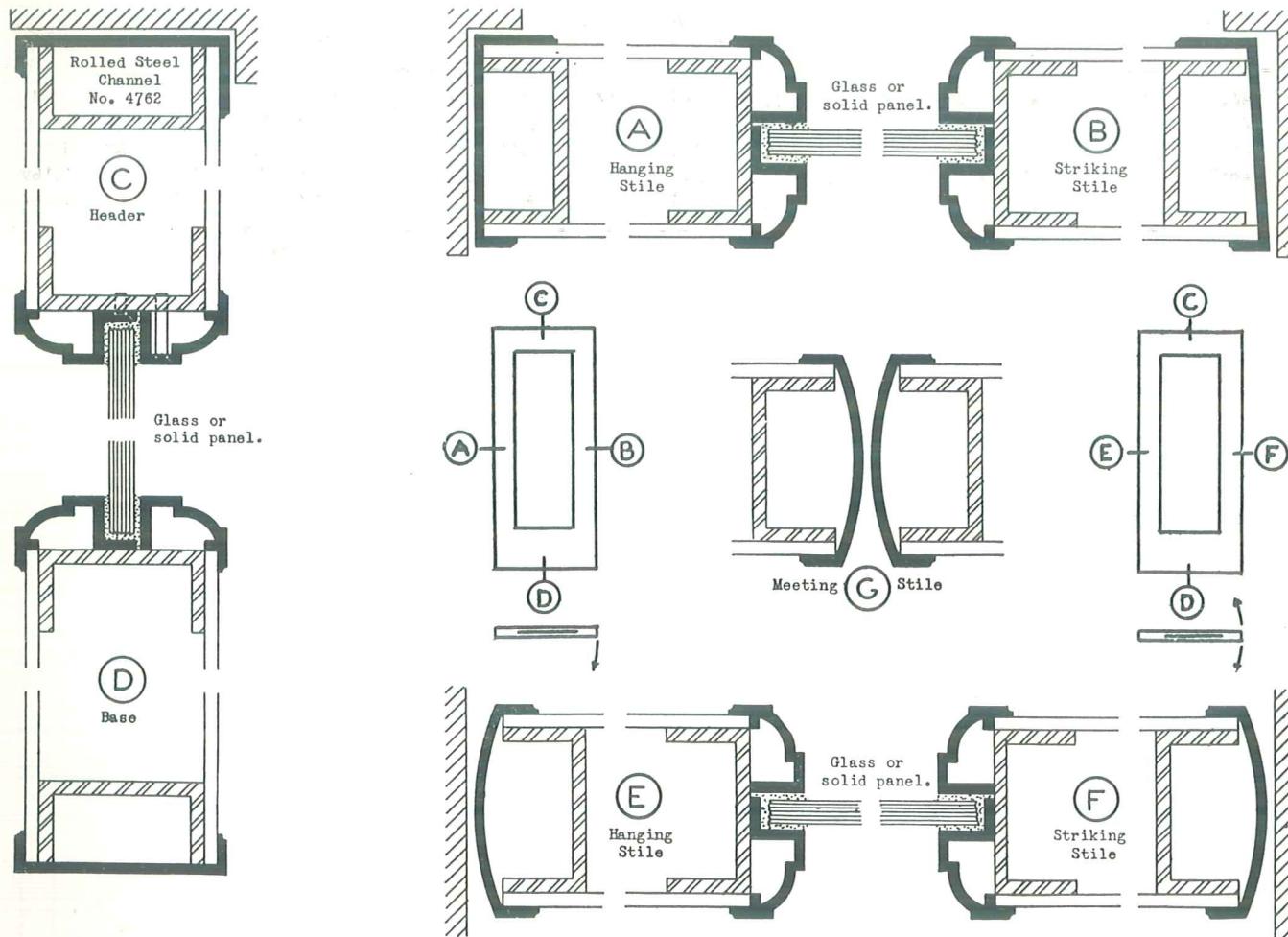
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ARCHITECTURAL BRONZE DOOR EDGINGS

85



Architectural Bronze Door Edgings may be used for kalamein, wood or tubular doors or for doors constructed of steel channels faced with metal, plastic or plywood as shown in the details below.



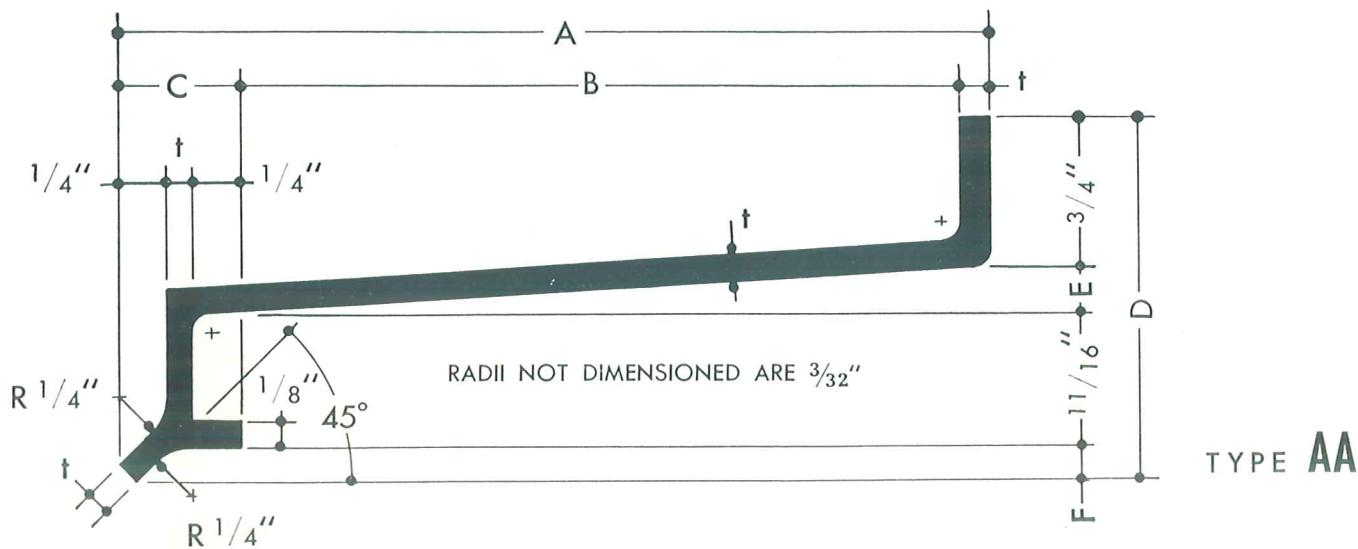
Construction details are not actual size.

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ALCOA ALUMINUM WINDOW SILLS

Alloy 6063-T42 (63S-T42)

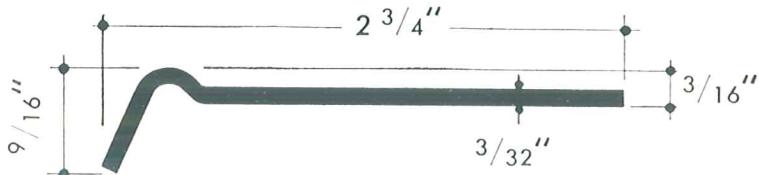
20 foot lengths



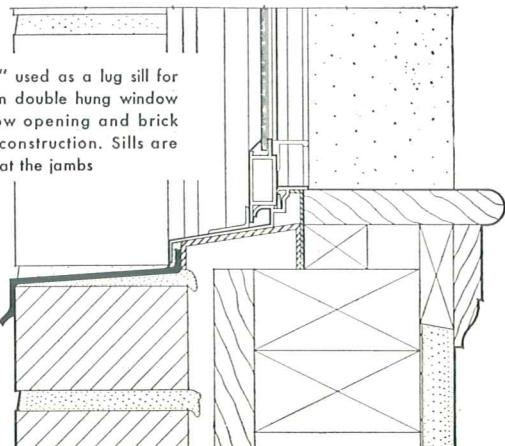
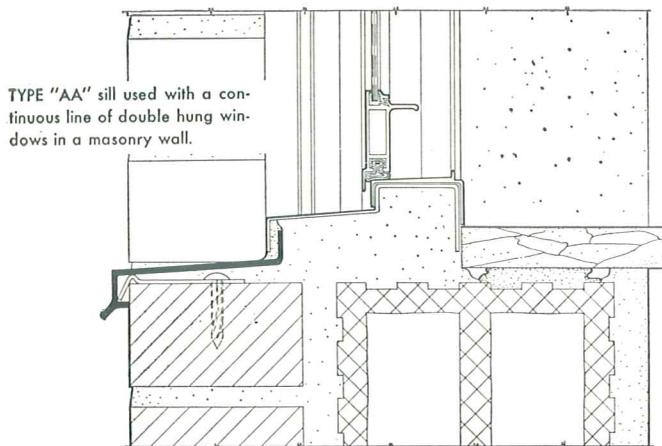
Shape number	A	B	C	D	E	F	t	Weight per foot	Shape number	A	B	C	D	E	F	t	Weight per foot
54684	3 1/2"	2 3/4"	5/8"	1 13/16"	3/16"	3/16"	1/8"	.767	54689	6"	5 1/4"	5/8"	1 31/32"	11/32"	3/16"	1/8"	1.141
54685	4"	3 1/4"	5/8"	1 27/32"	7/32"	3/16"	1/8"	.842	54690	6 1/16"	5 3/4"	2 1/32"	2"	3/8"	3/16"	5/32"	1.529
54686	4 1/2"	3 3/4"	5/8"	1 7/8"	1/4"	3/16"	1/8"	.919	54691	7 1/16"	6 3/4"	2 1/32"	2 1/16"	7/16"	3/16"	5/32"	1.716
54687	5"	4 1/4"	5/8"	1 29/32"	7/32"	3/16"	1/8"	.994	54692	8 1/8"	7 1/4"	1 1/16"	2 5/32"	15/32"	1/4"	3/16"	2.189
54688	5 1/2"	4 3/4"	5/8"	1 15/16"	5/16"	3/16"	1/8"	1.067	54693	9 1/8"	8 1/4"	1 1/16"	2 7/32"	17/32"	1/4"	3/16"	2.414

ANCHOR CLIP FOR "AA" SILL

Part No. SA-100—2" long



Typical Details of Window Sill Construction

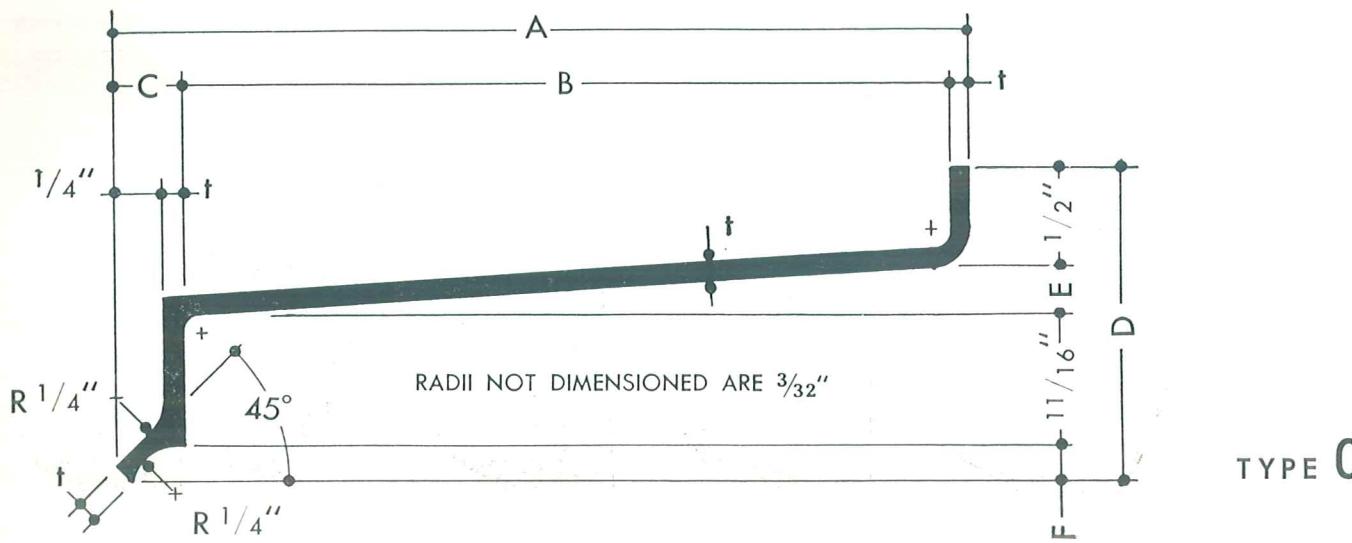


ALCOA ALUMINUM WINDOW SILLS

87

Alloy 6063-T42 (63S-T42)

20 foot lengths



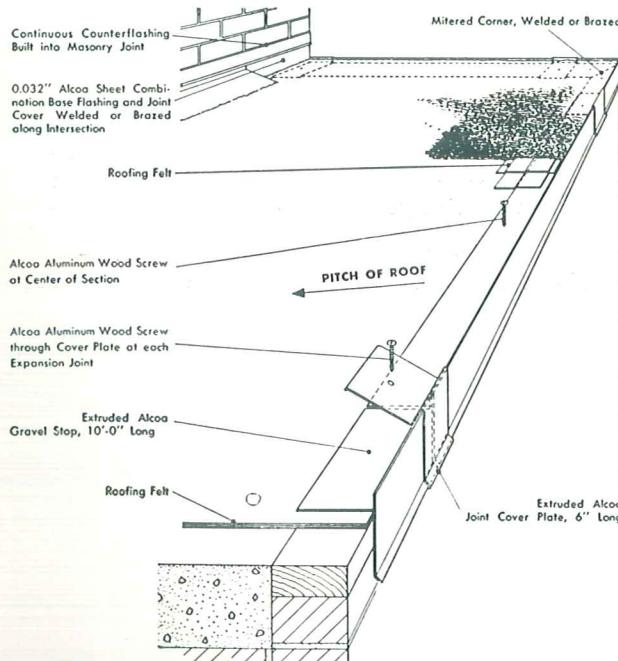
Shape number	A	B	C	D	E	F	t	Weight per foot
37734	3 7/16"	3"	1 1/32"	1 1/16"	3/16"	3/16"	3/32"	.524
37735	3 15/16"	3 1/2"	1 1/32"	1 1/32"	3/16"	3/16"	3/32"	.574
37736	4 7/16"	4"	1 1/32"	1 5/8"	1/4"	3/16"	3/32"	.636

Shape number	A	B	C	D	E	F	t	Weight per foot
37737	4 15/16"	4 1/2"	1 1/32"	1 2 1/32"	3/32"	3/16"	3/32"	.691
37738	5 7/16"	5"	1 1/32"	1 11/16"	5/16"	3/16"	3/32"	.746
37739	5 15/16"	5 1/2"	1 1/32"	1 23/32"	1 1/32"	3/16"	3/32"	.804

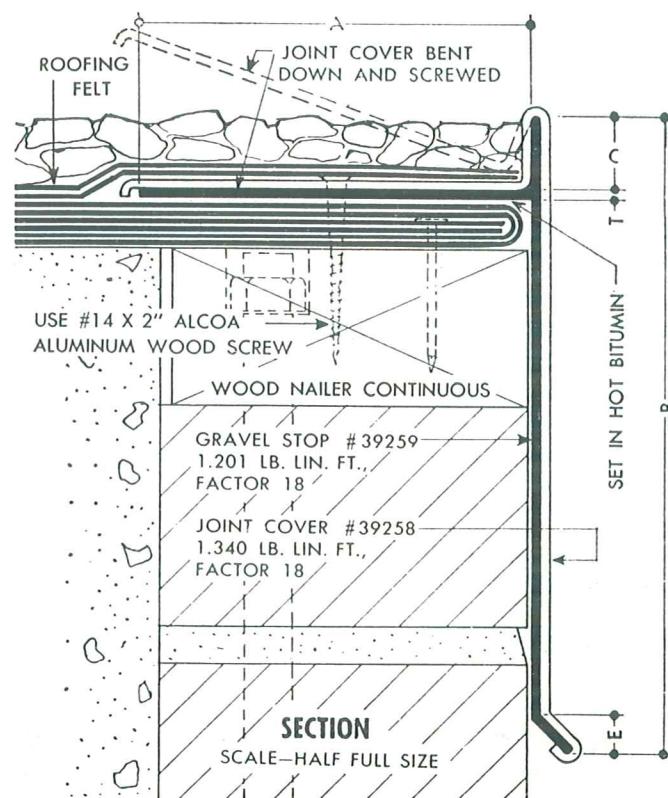
ALCOA ALUMINUM GRAVEL STOPS

Alloy 6063-T42 (63S-T42) FOR BONDED ROOFS

9'11 1/2" lengths



die numbers	dimensions in inches					Weight per foot
Gravel Stop	A	B	C	E	T	
42058	4	5	1	7/16	3/32	1.032
42059	4	3 1/2	5/8	5/32	3/32	.856
39259	4	6 1/2	3/4	5/8	3/32	1.201

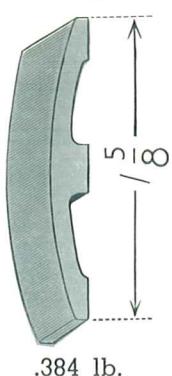


ALUMINUM DOOR EDGINGS

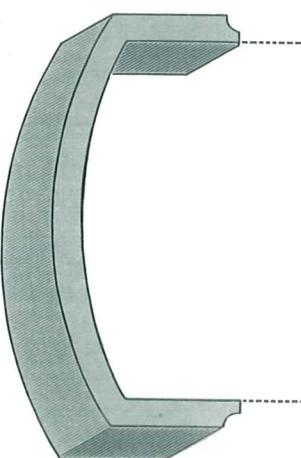
Alloy 6063-T5 (63S-T5)

16 foot lengths

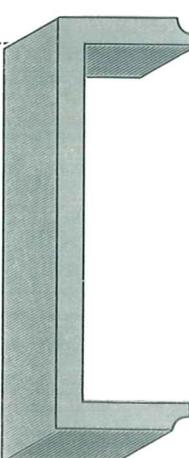
No. 6947



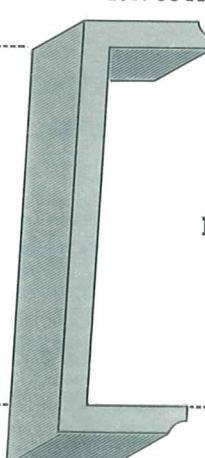
No. 6944



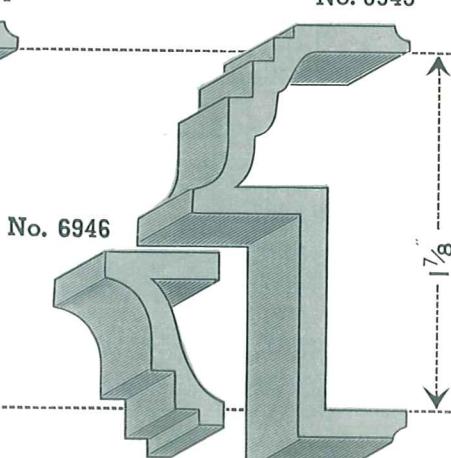
No. 6940



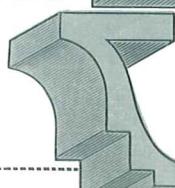
No. 6941



No. 6945



No. 6946



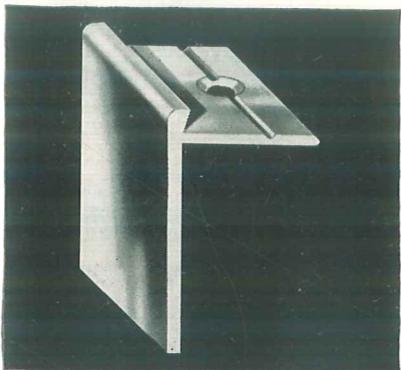
For assembly details, see page 85

POLISHED ALUMINUM NOSINGS

for counters, tables, display shelves, etc.

No. 5312-K

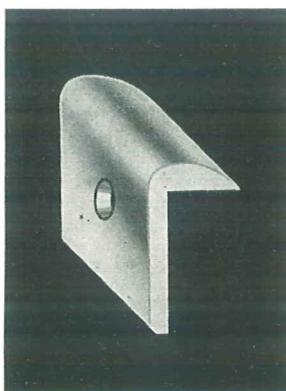
1 1/16" under flange,
for 1/8" material



No. 4020 — 5/8" wide
for 1/16" material



No. 7010-E
3/4" under flange



No. 7012-H

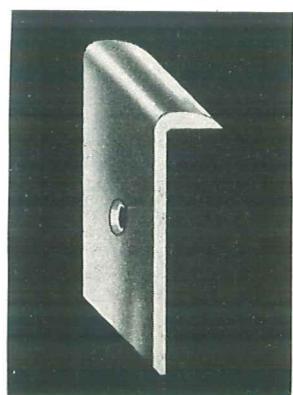
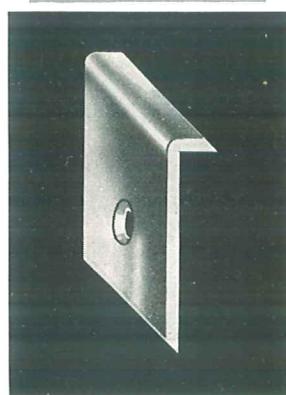
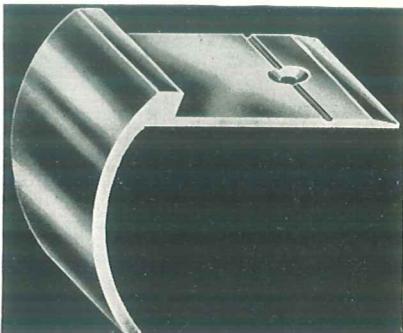
1 5/16" under flange

No. 7012-N

1 1/4" under flange

No. 7011-S

1 1/2" under flange

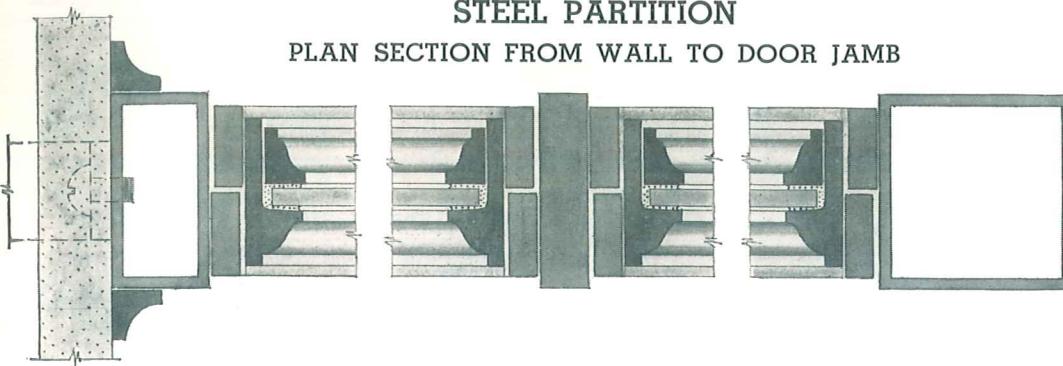


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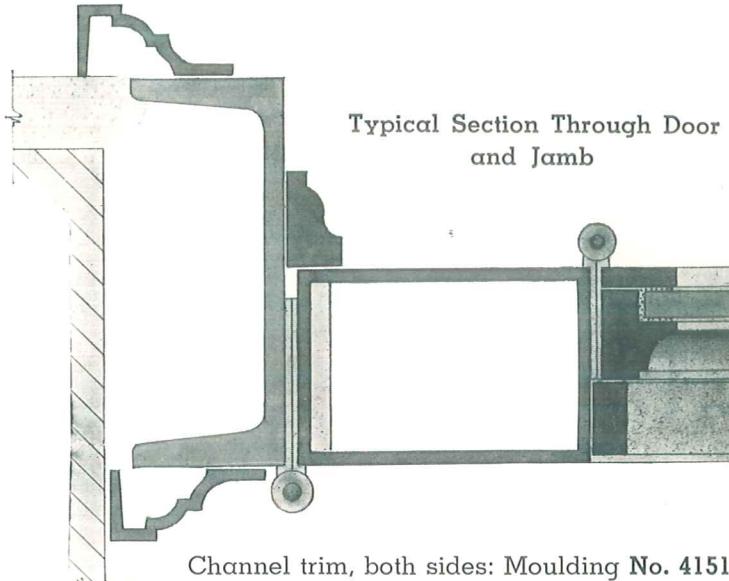
STEEL PARTITION

PLAN SECTION FROM WALL TO DOOR JAMB

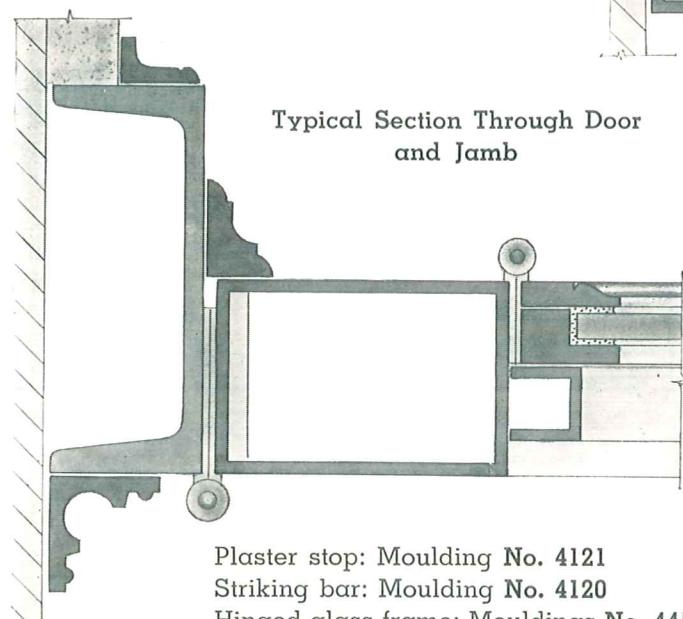


Plaster Stop:
Moulding No. 4102
Glass Frame:
Mouldings No. 4617
and No. 4258

STEEL DOORS



Channel trim, both sides: Moulding No. 4151
Striking bar: Moulding No. 4256
Hinged glass frame: Moulding No. 4620

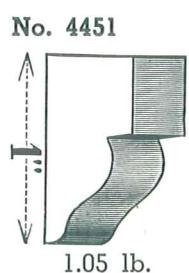
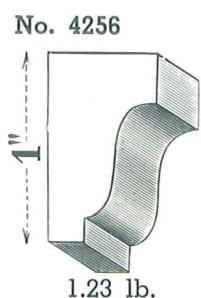
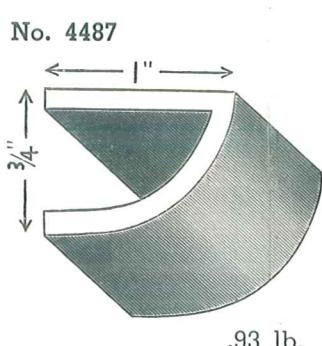
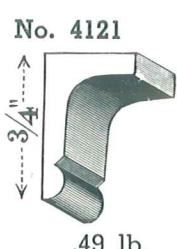
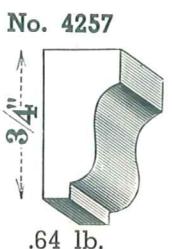
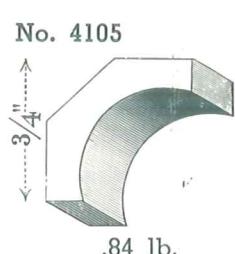
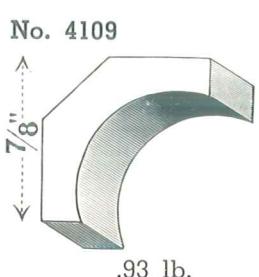
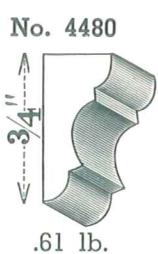
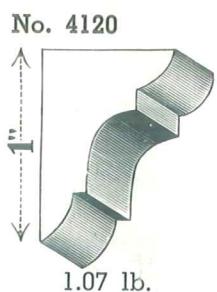
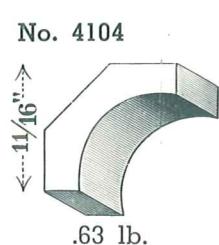
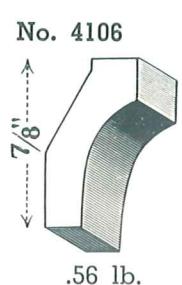
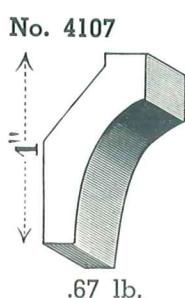
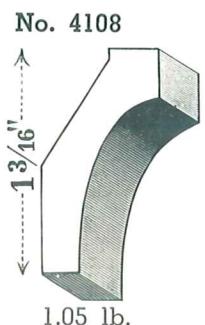
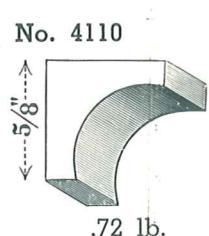
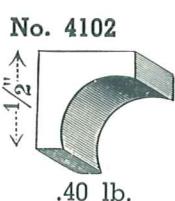


Plaster stop: Moulding No. 4121
Striking bar: Moulding No. 4120
Hinged glass frame: Mouldings No. 4450 and No. 4460
Grille frame: Channel No. 4732

Details are ONE-HALF actual size

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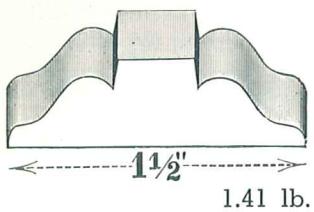
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MOULDINGS FOR GLASS CONSTRUCTION

91

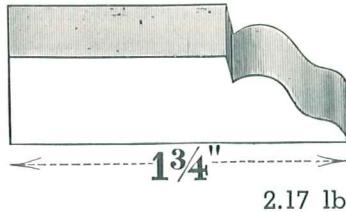
No. 4471



$1\frac{1}{2}''$

1.41 lb.

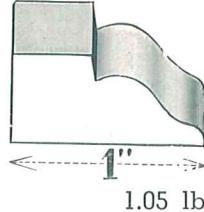
No. 4461



$1\frac{3}{4}''$

2.17 lb.

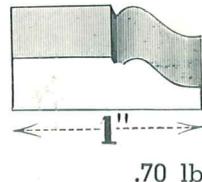
No. 4451



$1''$

1.05 lb.

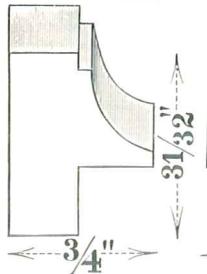
No. 4450



$1''$

.70 lb.

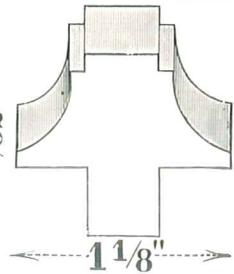
No. 4620



$\frac{3}{4}''$

$3\frac{1}{32}''$

No. 4621



$1\frac{1}{8}''$

1.96 lb.

No. 4601



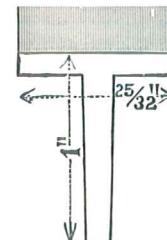
.81 lb.

$1\frac{3}{16}''$



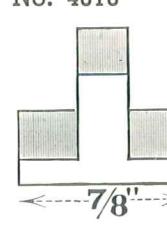
1.15 lb.

No. 4619



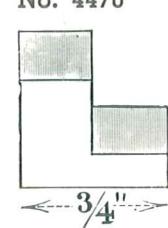
.65 lb.

No. 4618



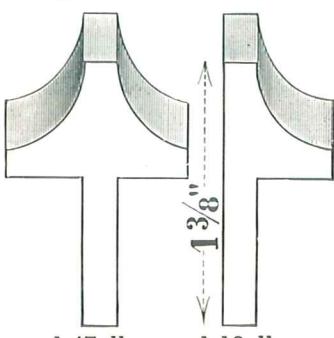
.75 lb.

No. 4470



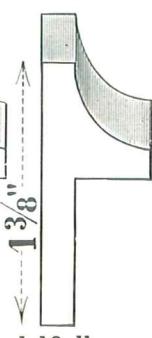
.95 lb.

No. 4602



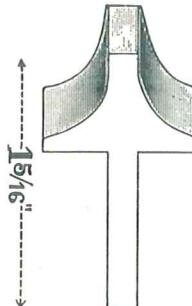
1.47 lb.

No. 4603



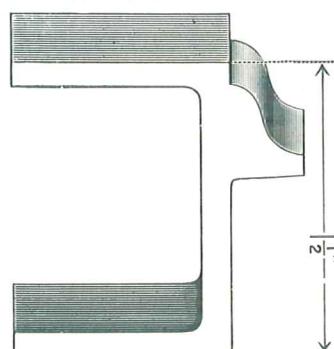
1.13 lb.

No. 4606



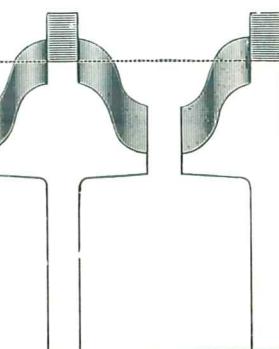
.97 lb.

No. 4615



2.05 lb.

No. 4616



1.60 lb.

No. 4617



1.36 lb.

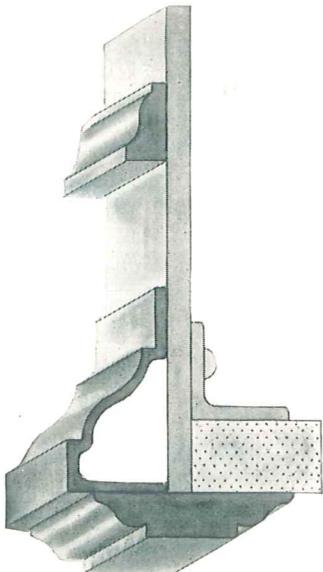
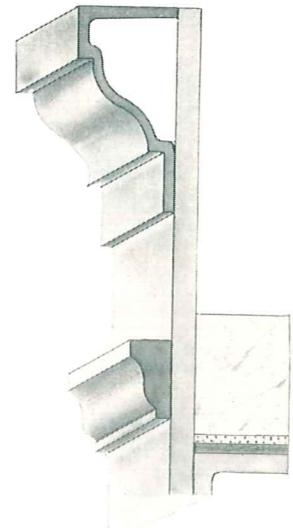
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STAIR STRINGER AND FACIA CONSTRUCTION

Plate Stringer with Moulding
No. 4153 top and bottom.

Panel: Moulding No. 4257
Plaster soffit stop:
Moulding No. 4471



Illustrations show the applications of rolled steel Mouldings for stringers and facias. For full size details of Mouldings see the succeeding pages.

Plate Stringer with Moulding
No. 4172

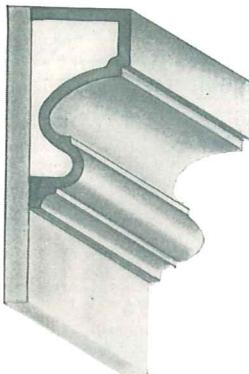


Plate Stringer with Moulding
No. 4152

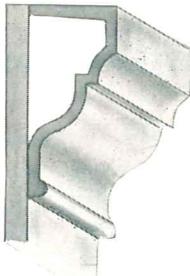


Plate Stringer with Moulding
No. 4154

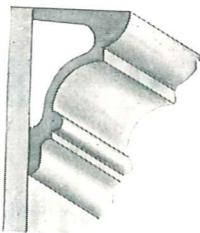


Plate Wall Stringer with
Moulding No. 4226

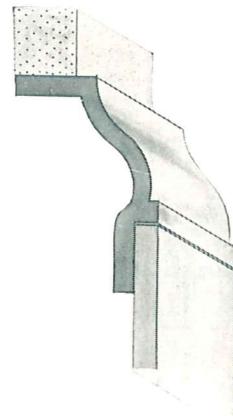
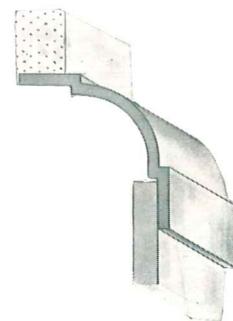
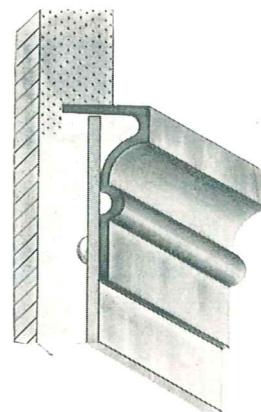


Plate Wall Stringer with
Moulding No. 4310



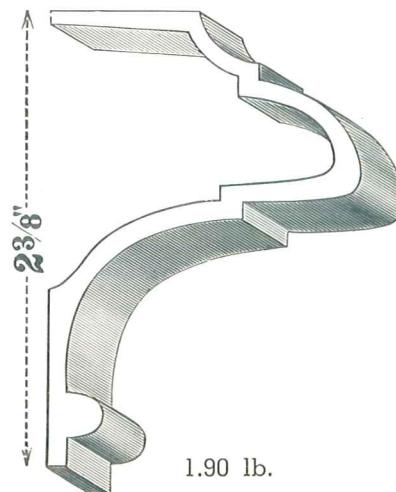
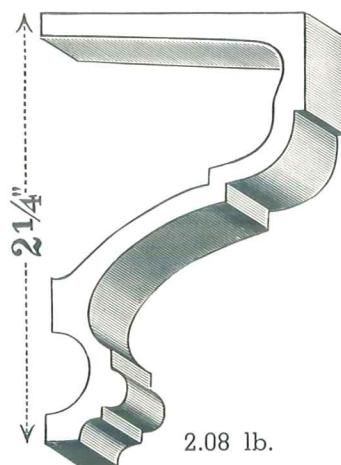
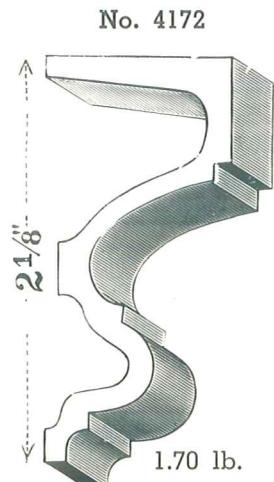
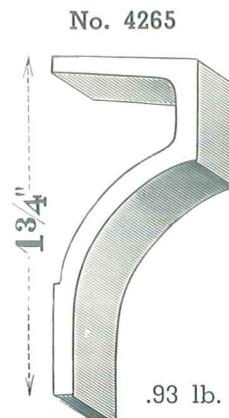
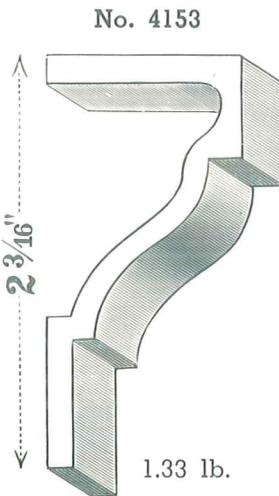
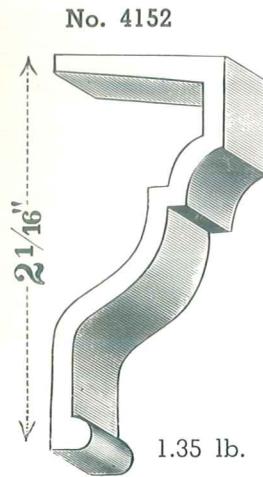
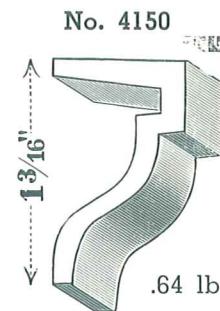
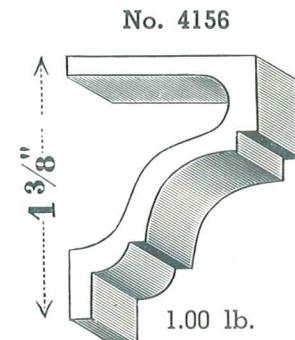
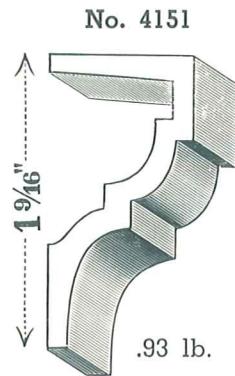
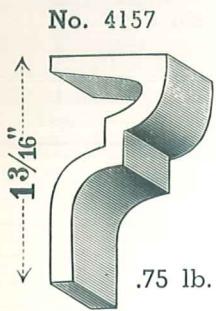
Wainscoating or Plate Wall
Stringer with Moulding No. 4280



Details are ONE-HALF actual size

PLATE STRINGER MOULDINGS

93

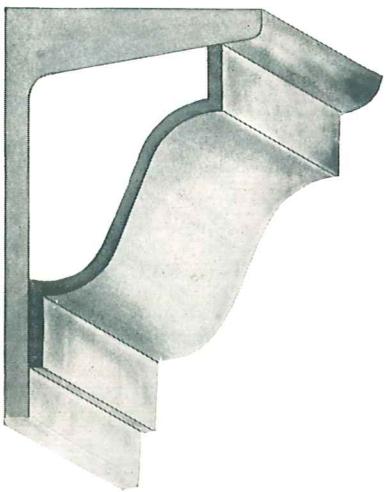


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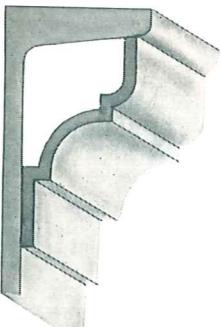
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STAIR STRINGER AND FACIA CONSTRUCTION

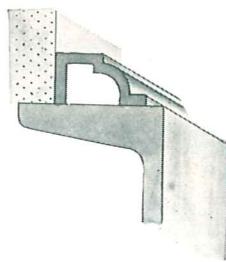
Channel Stringer with Moulding
No. 4305 or No. 4356



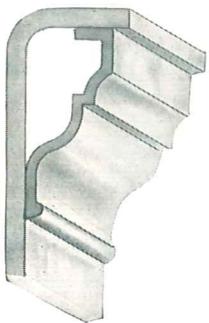
Channel Stringer with
Moulding No. 4303



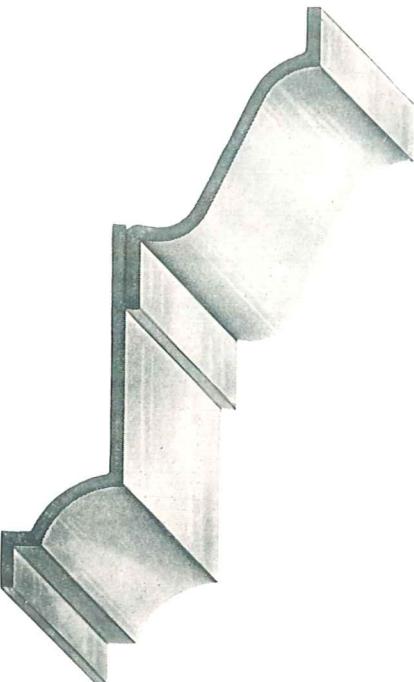
Channel Wall Stringer with
Moulding No. 4130



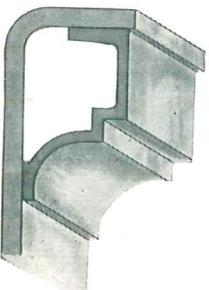
BUILT-UP CORNICES



Bent Plate Channel
Stringer with
Moulding No. 4159



Mouldings
No. 4173 and No. 4302



Bent Plate Channel
Stringer with
Moulding No. 4173

Mouldings
No. 4356 and No. 4360

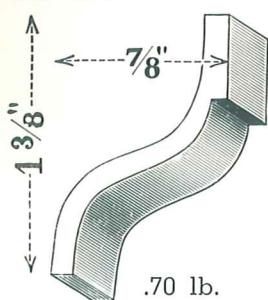
Illustrations show the applications of rolled steel Mouldings for stringers, facias and cornices. For full size details of Mouldings see the succeeding pages.

Details are ONE-HALF actual size.

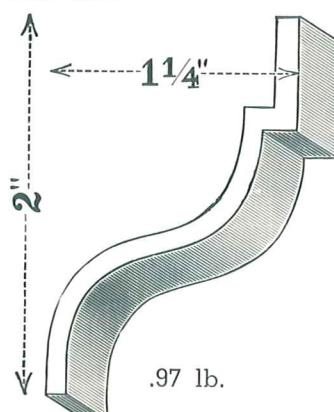
CHANNEL STRINGER MOULDINGS

95

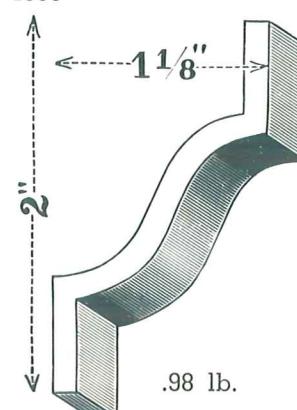
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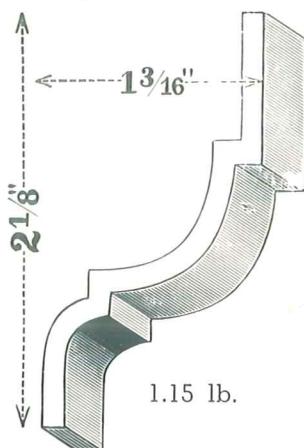
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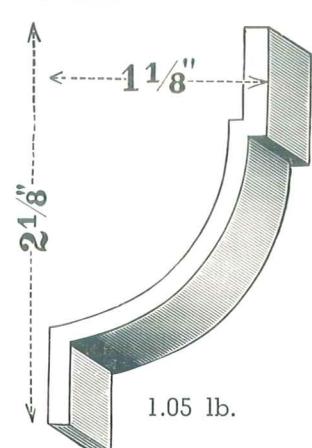
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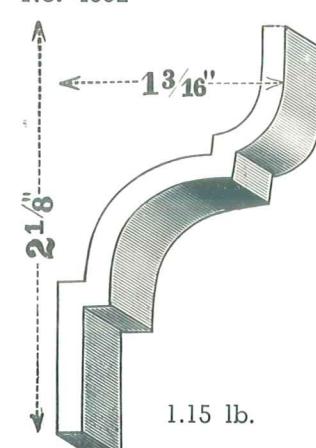
No. 4303



No. 4312

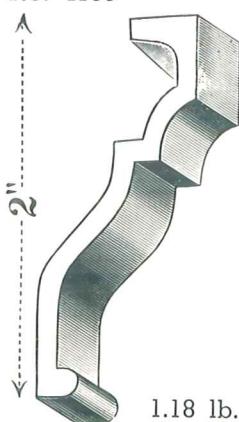


No. 4302

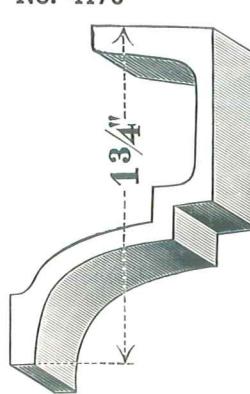


MOULDINGS FOR BENT CHANNEL STRINGERS

No. 4159



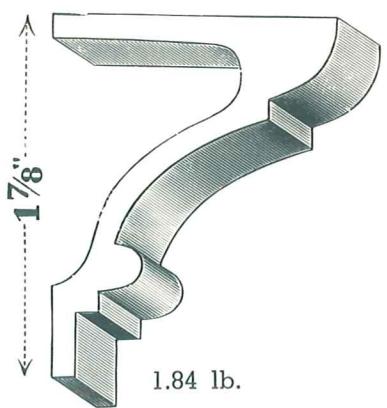
No. 4173



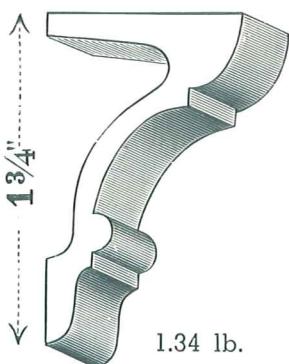
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No. 4155

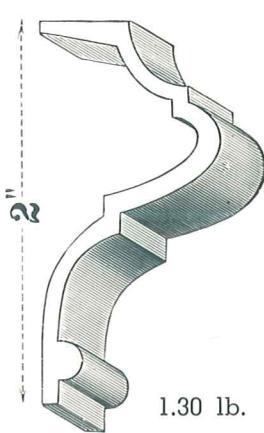


No. 4154



1.34 lb.

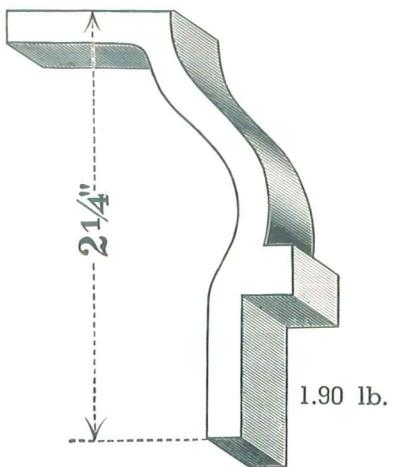
No. 4266



1.30 lb.

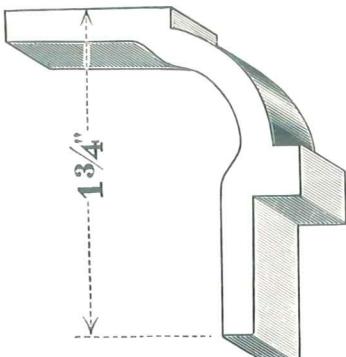
WALL STRINGER MOULDINGS

No. 4226



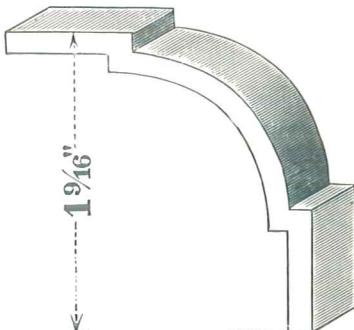
1.90 lb.

No. 4225



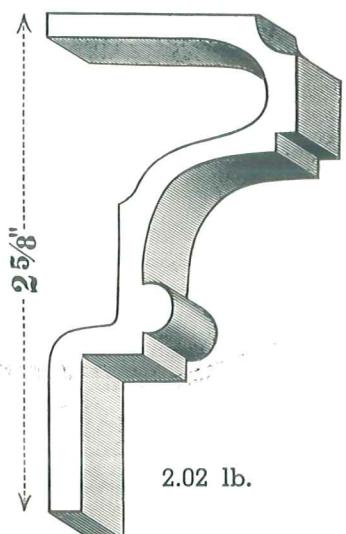
1.70 lb.

No. 4310



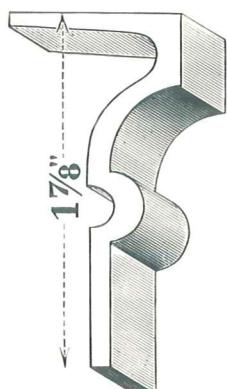
1.00 lb.

No. 4162



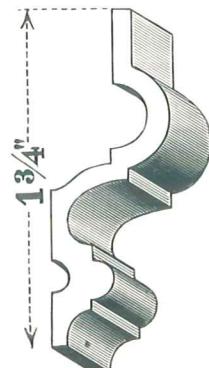
2.02 lb.

No. 4280



1.10 lb.

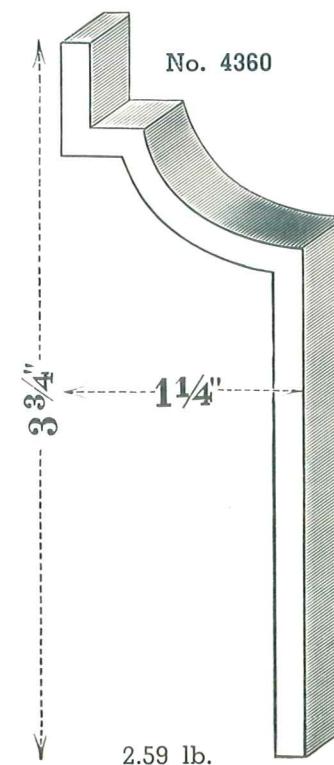
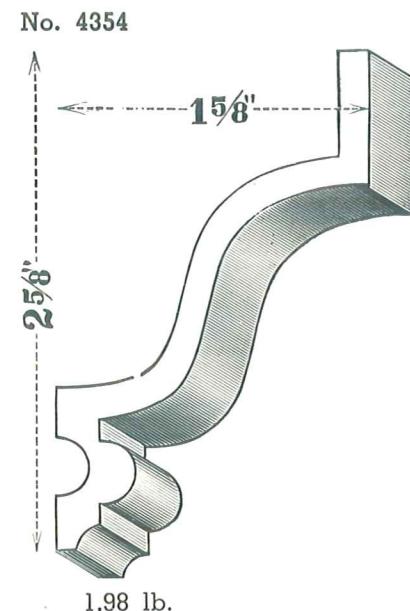
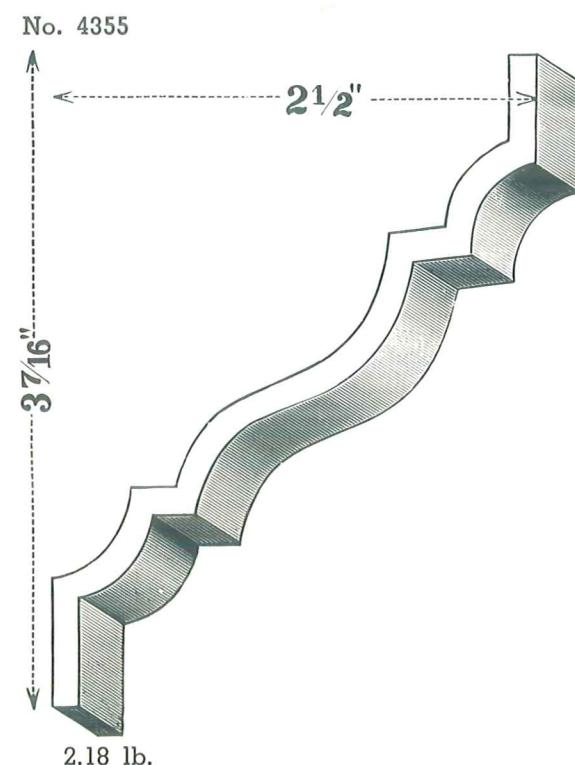
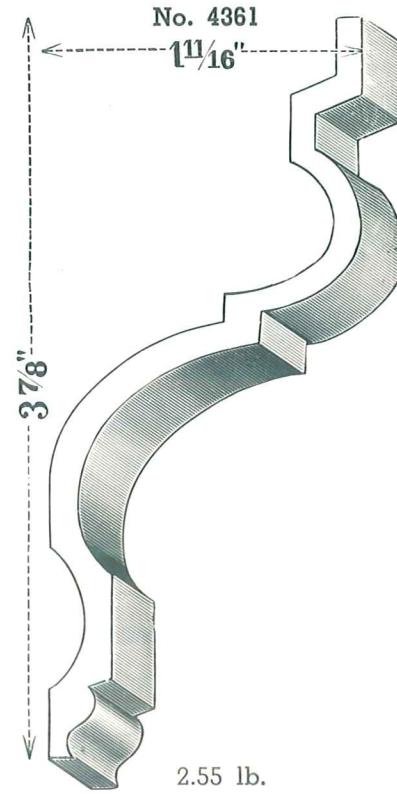
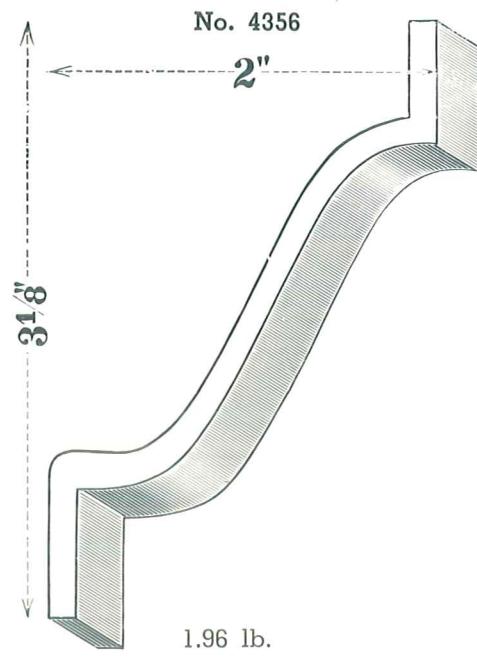
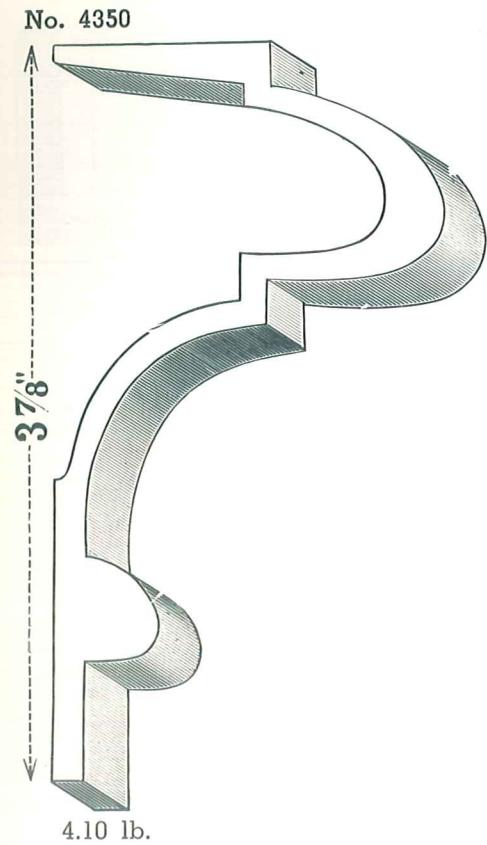
No. 4240



.84 lb.

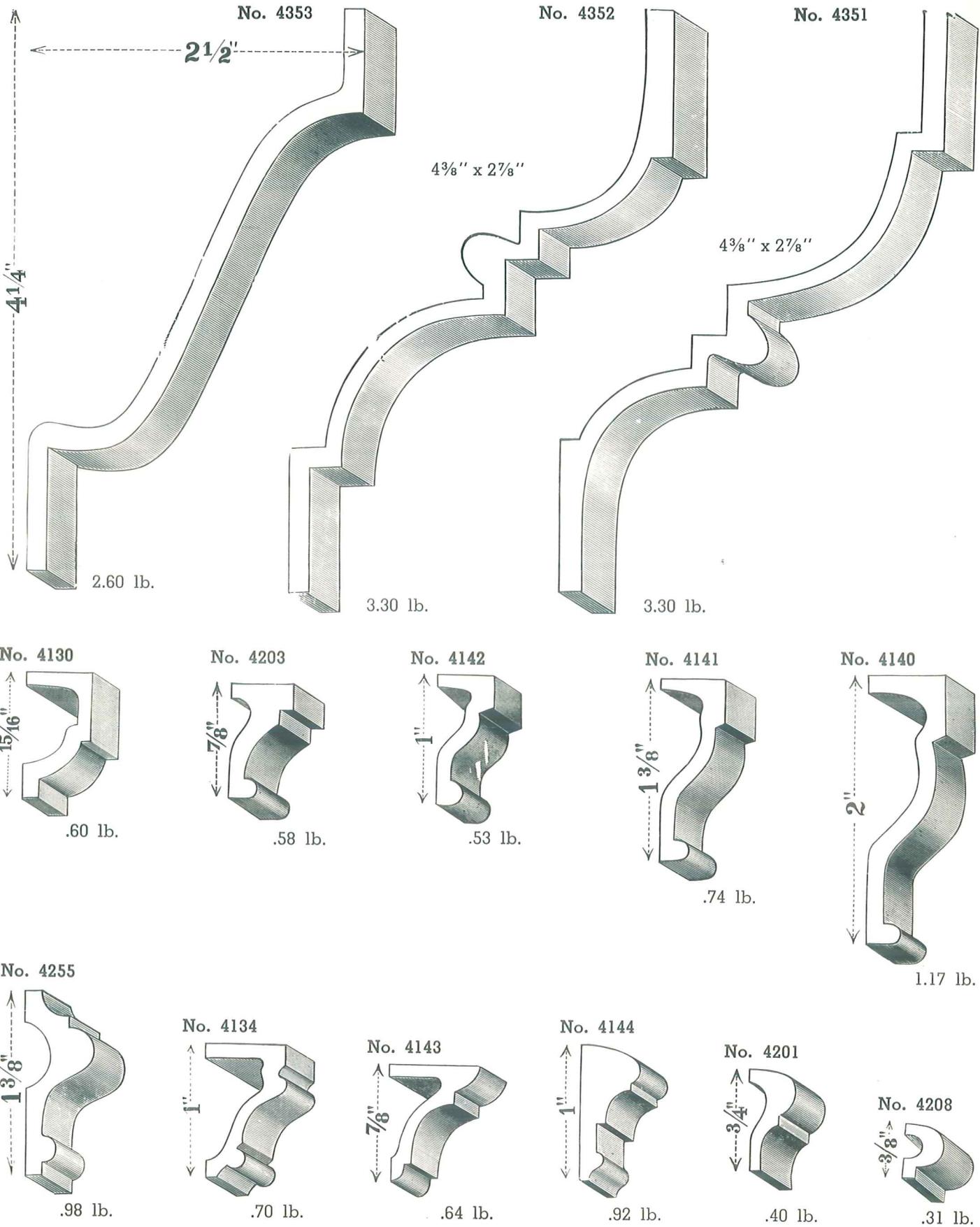
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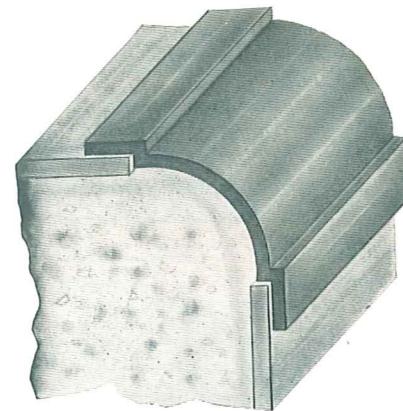
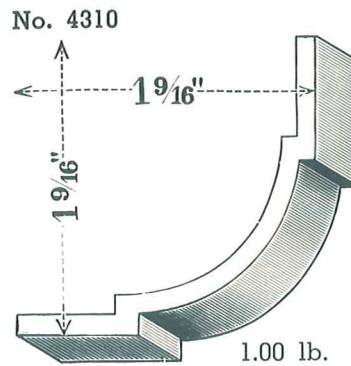
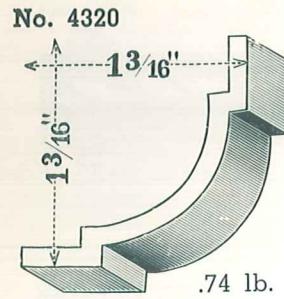


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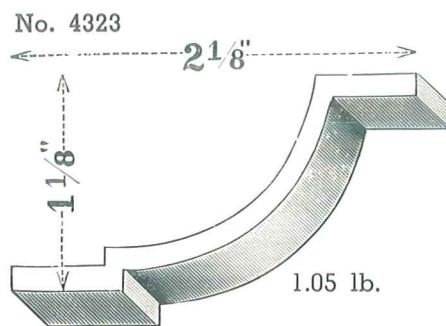
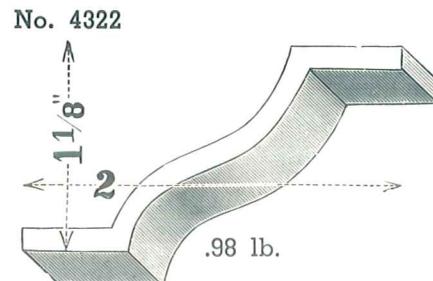
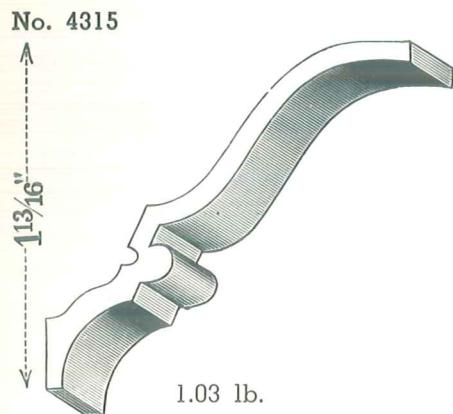


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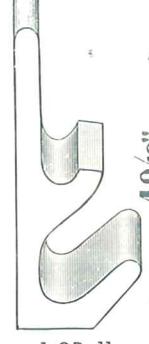
Detail showing Moulding 4310 or 4320 as corner guard.

(not actual size)



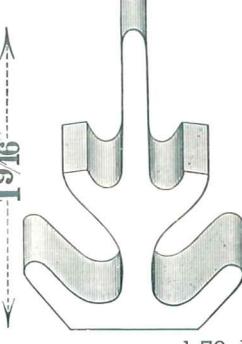
SKYLIGHT BARS

No. 4630



1.25 lb.

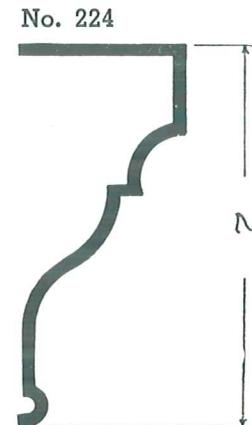
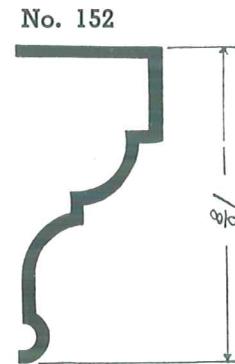
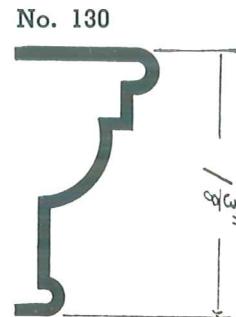
No. 4631



1.70 lb.

COLD ROLLED STEEL MOULDINGS

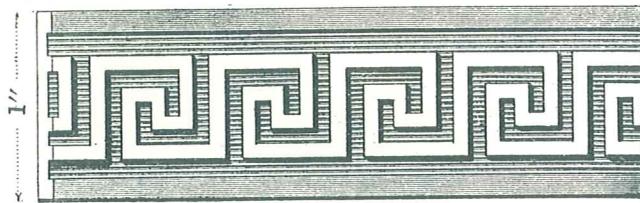
No. 22 GAUGE



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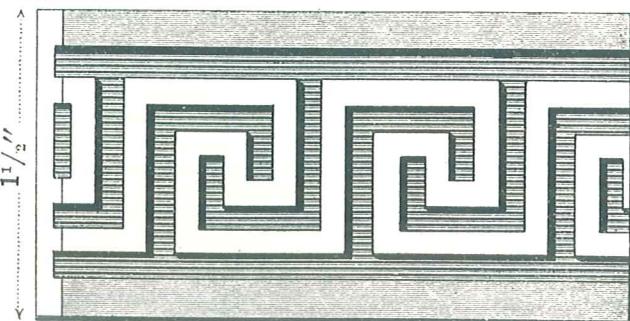
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No. 5070



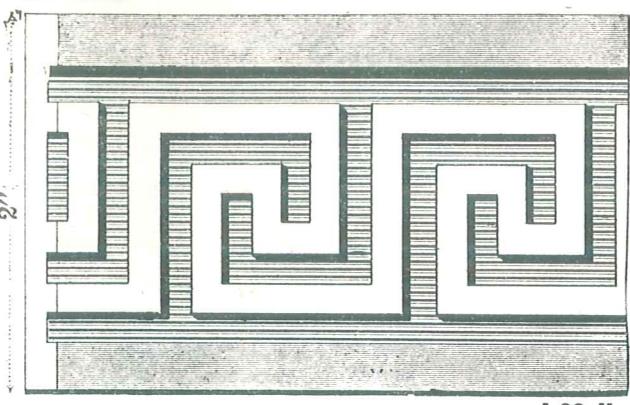
.36 lb.

No. 5071



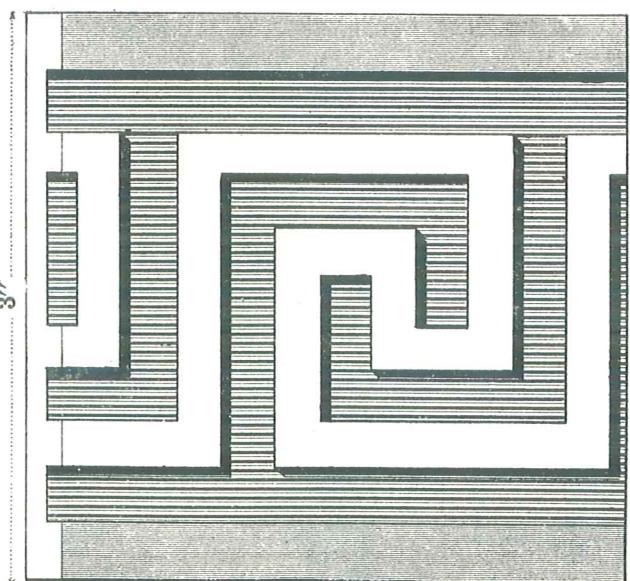
.52 lb.

No. 5072



1.00 lb.

No. 5074



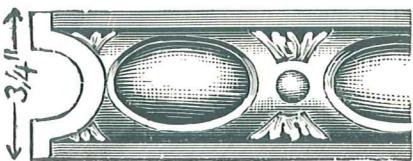
1.60 lb

No. 5020



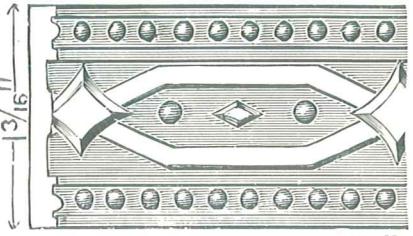
.25 lb.

No. 5021



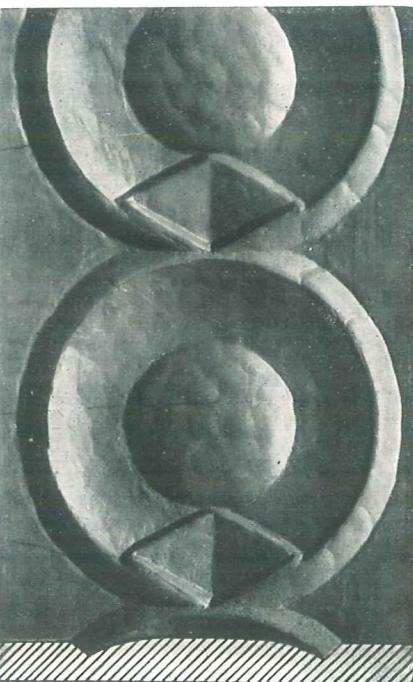
.48 lb.

No. 5022



.50 lb.

No. 5305



← 2 3/16 " →

1.46 lb.

Mouldings on this page will be discontinued when present stock is exhausted.

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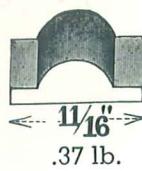
New Jersey Phone: GEneva 8-4600 • New York Phone: OXFORD 5-2236 • Philadelphia Phone: MArket 7-7596

No. 4404



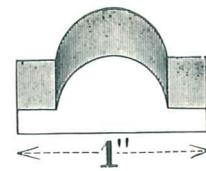
$\frac{1}{2}''$
.25 lb.

No. 4401



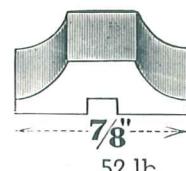
$\frac{11}{16}''$
.37 lb.

No. 4403



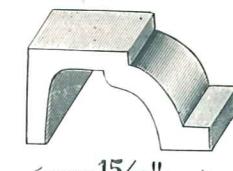
$1''$
.82 lb.

No. 4432



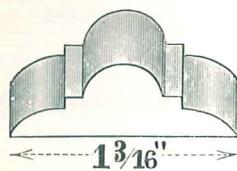
$\frac{7}{8}''$
.52 lb.

No. 4130



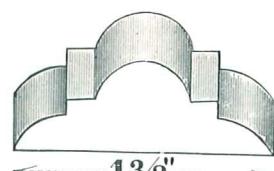
$\frac{15}{16}''$
.60 lb.

No. 4411



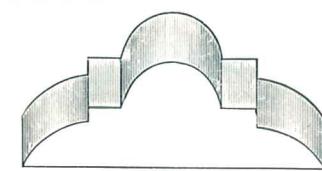
$1\frac{3}{16}''$
1.09 lb.

No. 4412



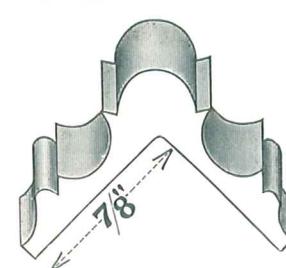
$1\frac{3}{8}''$
1.31 lb.

No. 4413



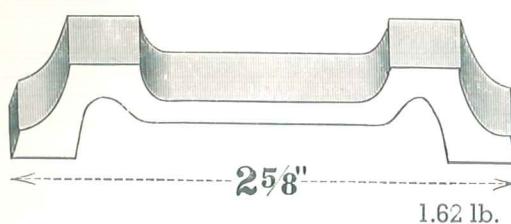
$1\frac{9}{16}''$
1.65 lb.

No. 4489



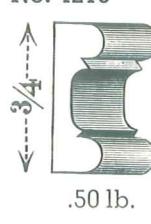
1.14 lb.

No. 4442



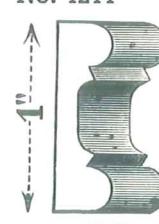
$2\frac{5}{8}''$

No. 4210



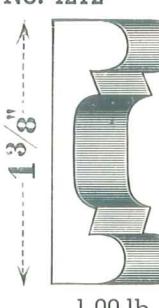
.50 lb.

No. 4211



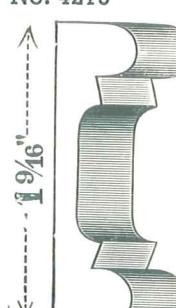
.65 lb.

No. 4212



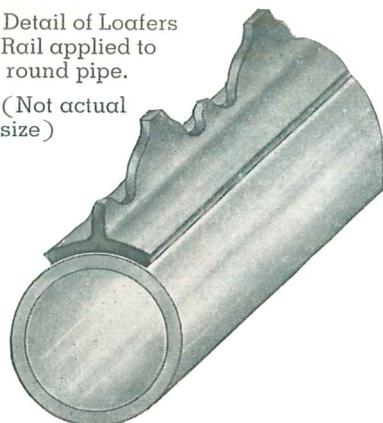
1.00 lb.

No. 4213

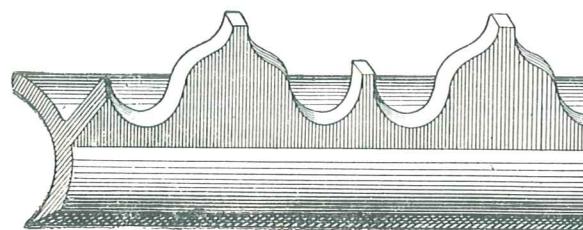


1.36 lb.

Detail of Loafers Rail applied to round pipe.
(Not actual size)



ROLLED STEEL LOAFERS RAIL

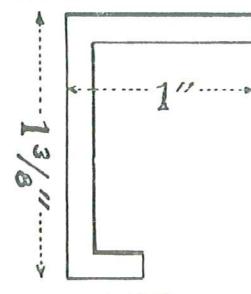


Loafers Rail may be used on flat surfaces as well as pipe rails.

Stronger and cheaper than cast iron.

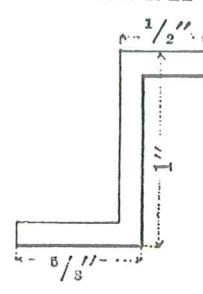
ROLLED STEEL SECTIONS FOR CASEMENTS AND VENTILATORS

No. 4656



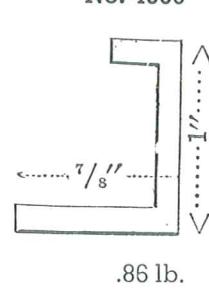
1.27 lb.

No. 4722

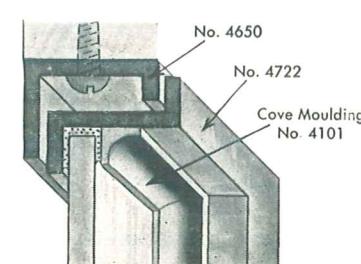


.74 lb.

No. 4650



.86 lb.



Detail of Ventilator Frame
(1/2 actual size)

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ORNAMENTS—HARDWARE



EVERY item listed in this section is carried in stock in substantial quantities. Shipment usually can be made immediately upon receipt of order.

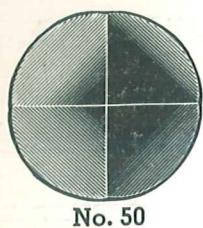
Subjects covered in this section:

Ornaments	Page No.
Applied Designs, Cast Iron	106, 107
Balls and Rivets, Steel	114
Cups and Husks, Pressed Steel	113
Leaves, Pressed Steel	111, 112
Mouldings, Pressed Steel	114
Nails, Forged Ornamental	103
Pickets, Drop Forged	114
Rosettes, Cast Iron, Bronze, Aluminum	108
Rosettes, Pressed Steel	108, 109, 110
Hardware for Doors	
Butts, Hinges, Flush Bolts	104
Locks, Door Handles	105

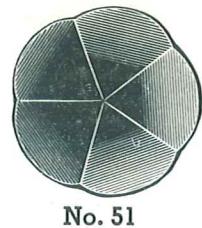
For other ornamental items, see sections on "Railings" and "Treillage"

FORGED WROUGHT IRON ORNAMENTAL NAILS 103

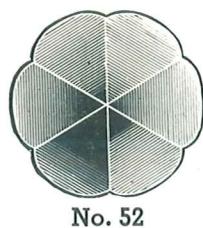
Illustrations Show Top and Side View



No. 50



No. 51



No. 52



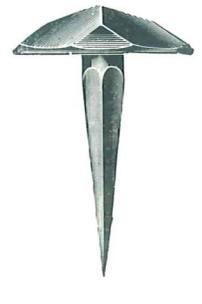
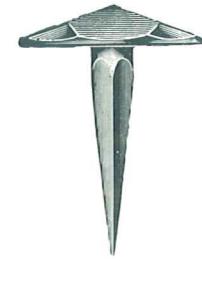
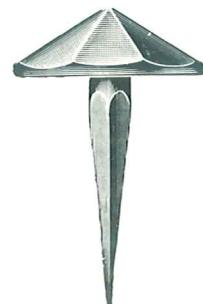
No. 53



No. 54



No. 55



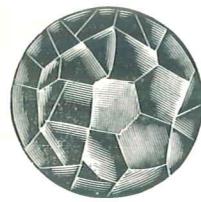
All Numbers are Carried in Stock in Sizes:

$\frac{3}{8}$ " $\frac{1}{2}$ " $\frac{5}{8}$ " $\frac{3}{4}$ " $\frac{7}{8}$ " 1" $1\frac{1}{8}$ " $1\frac{3}{16}$ "

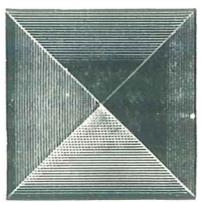
The length of the point, depending on size of the head, ranges from $\frac{3}{4}$ " to $1\frac{3}{8}$ "

ILLUSTRATIONS ARE NOT ACTUAL SIZE

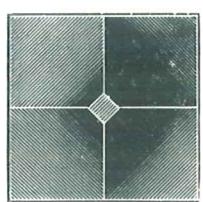
When ordering please state number and size wanted



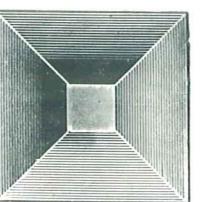
No. 56



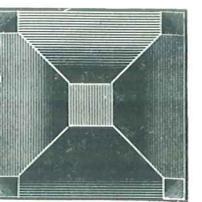
No. 62



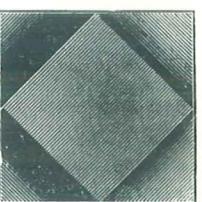
No. 63



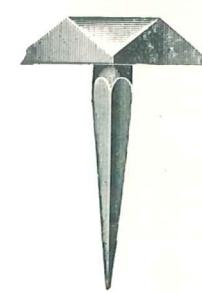
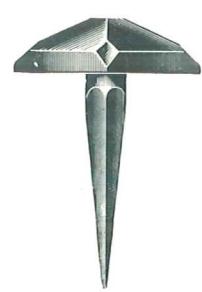
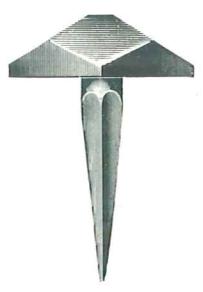
No. 64



No. 65



No. 66



FORGED WROUGHT IRON NAILS are furnished with natural hand-hammered finish. They may be used advantageously for studding church doors, wooden chests, furniture, trim, hinge bands and other hardware.

FORGED WROUGHT IRON NAILS are also used for other decorative purposes such as forming rosettes in corners or panels, for fancy rivets on lighting fixtures, mirrors, tables, chairs, fireplaces, display fixtures, etc.

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HEAVY DUTY HINGES AND BUTTS

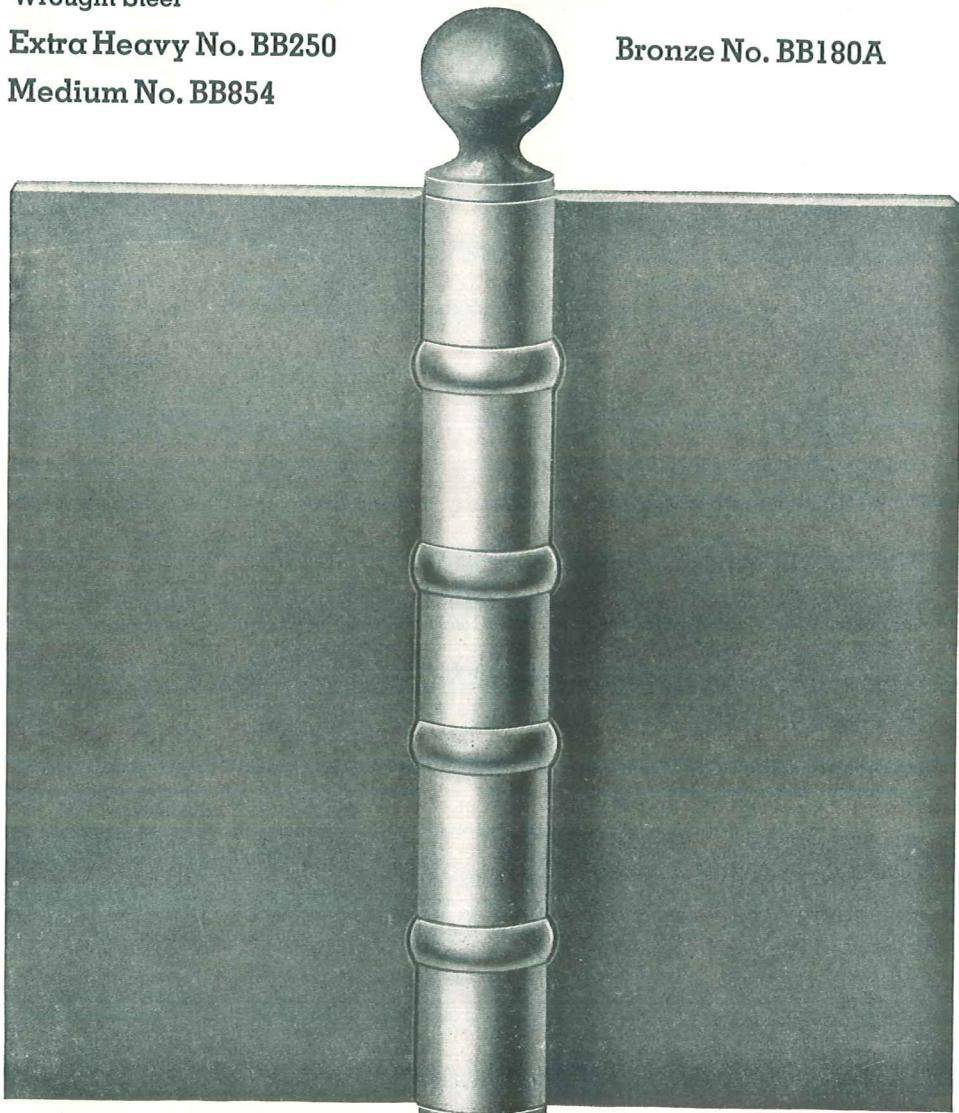
Blank—without screw holes

BALL BEARING HINGES

Wrought Steel

Extra Heavy No. BB250

Medium No. BB854

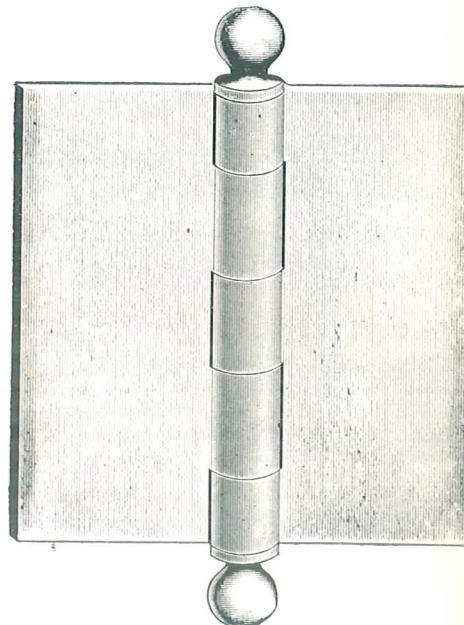


Bronze No. BB180A

LOOSE PIN BUTTS

Wrought Steel

No. NH823

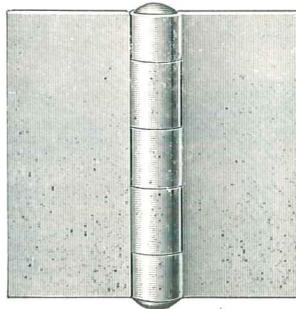


Stock sizes

2"	x 2"	.082" gauge
2½"	x 2½"	.089" "
3"	x 3"	.092" "
3½"	x 3½"	.123" "
4"	x 4"	.130" "

PLAIN BUTTS

Tight Pin—No. 850



Stock sizes

3"	x 3"	.130" gauge
4"	x 4"	.160" "
5"	x 5"	.180" "

BALL BEARING HINGES

Wrought Steel



Wrought Steel
Flush Bolts

9" long

Bolt has 1" throw, is
¾" square and has
1⅓" lip extension.
Front plate 1" wide.



Extra Heavy

4"	x 4"	.170" gauge
4½"	x 4½"	.180" "
5"	x 5"	.190" "
6"	x 6"	.203" "

Medium

6"	x 5"	.160" gauge
6"	x 6"	.160" "
4"	x 4"	.130" gauge
5"	x 5"	.146" "

Bronze

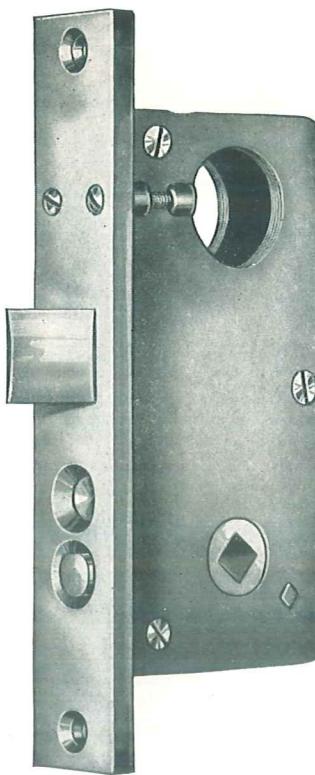
Hinges are equipped with ball bearing washers which prevent wear and insure easy and quiet operation. All Butts and Hinges furnished blank, without screw holes.

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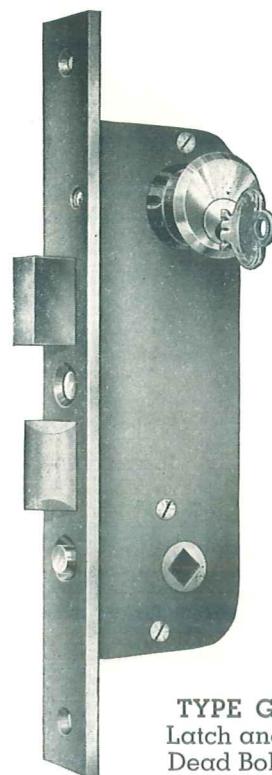
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HEAVY DUTY LOCKS

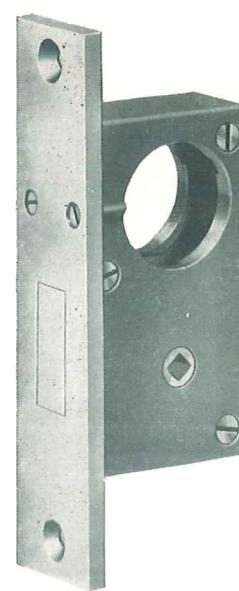
105



TYPE F
Latch only



TYPE G
Latch and
Dead Bolt

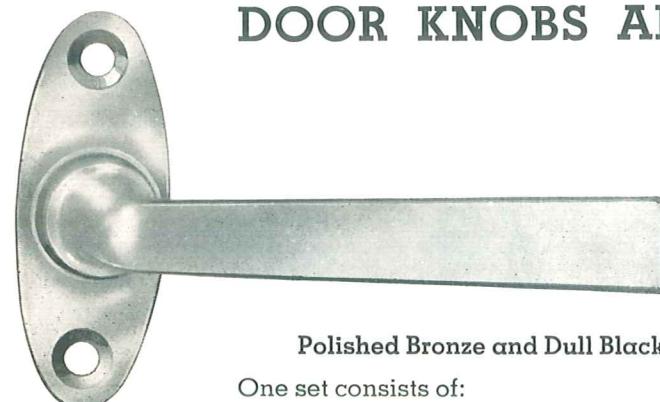


TYPE Q
Dead Bolt only

CYLINDERS FOR LOCKS

Two sizes
1 " long
1 1/4" long

Standard threads
Each cylinder furnished with 2 keys.
When ordering several cylinders, state whether or not they should be keyed alike.



Polished Bronze and Dull Black Malleable Iron

One set consists of:

1 Lever, 1 Knob, 1 Swivel Spindle, 2 Escutcheons
Also sold separately, or in sets of 2 Levers or 2 Knobs.



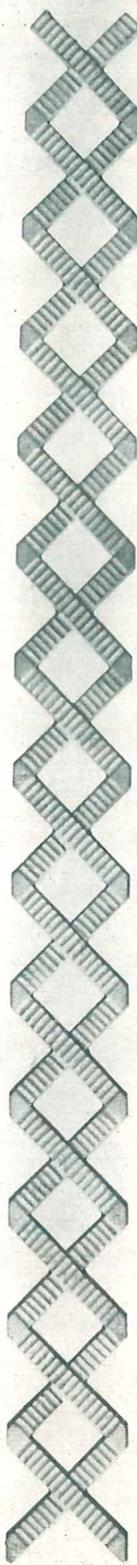
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APPLIED DESIGNS

Cast Iron

Applied Designs are finished castings with every detail executed perfectly.



No. 6210

No. 6211

No. 6212

No. 6213

No. 6214

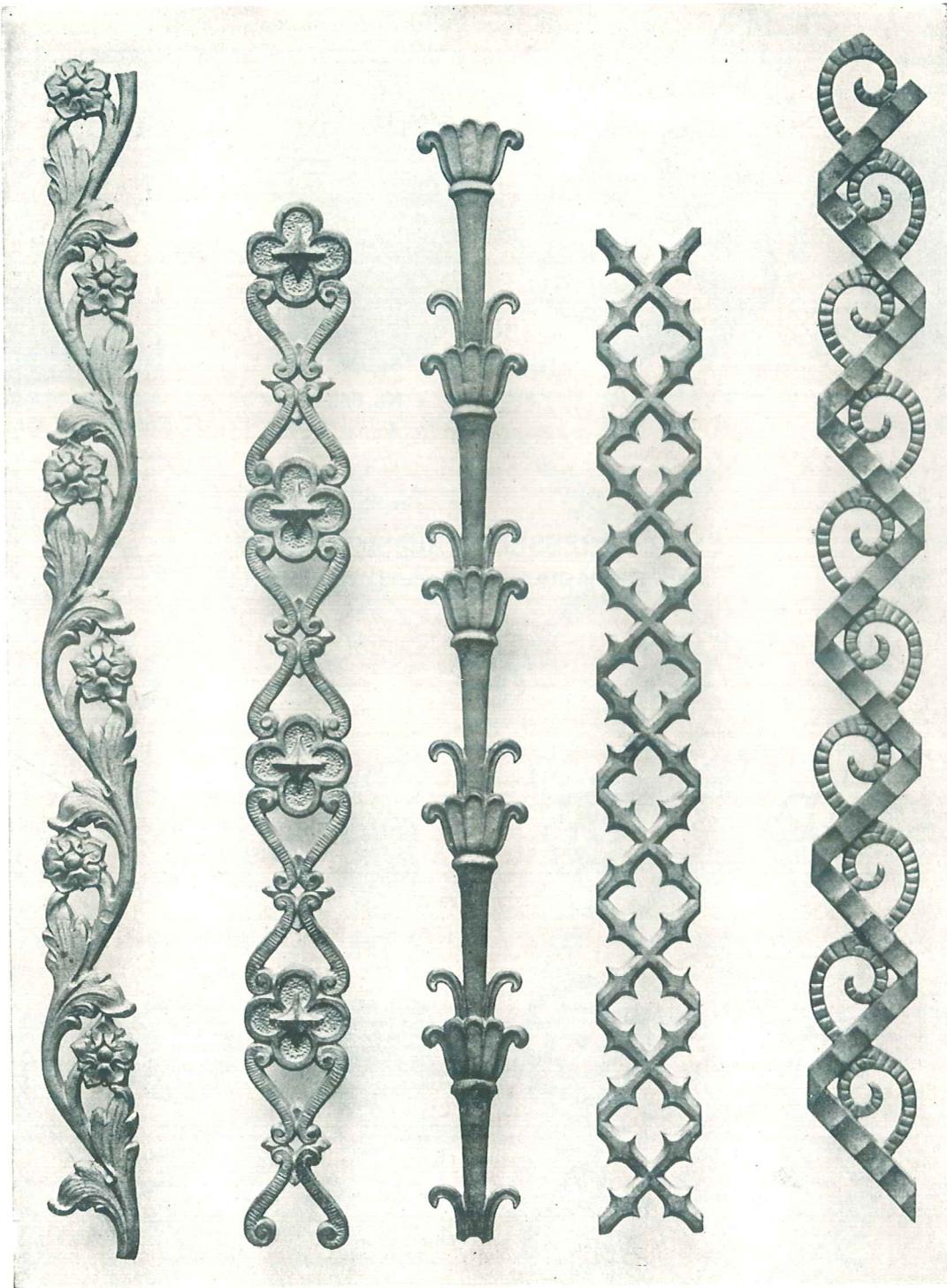
Illustrations are ONE-THIRD actual size

APPLIED DESIGNS

107

Cast Iron

Applied Designs are finished castings with every detail executed perfectly.



No. 6215

No. 6216

No. 6217

No. 6218

No. 6219

Illustrations are ONE-THIRD actual size

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ROSETTES

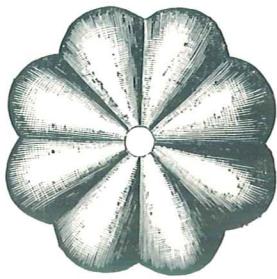
Illustrations are not actual size

Cast Iron
Polished Bronze
Polished Aluminum



No. 554
2 $\frac{3}{4}$ " dia.

PRESSED STEEL



1", 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ ",
2" or 3" dia.

Cast Iron—Polished Bronze
Polished Aluminum

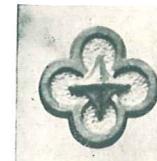


No. 553
3 $\frac{3}{4}$ " x 2 $\frac{1}{4}$ " oval

Cast Iron—Polished Bronze
Polished Aluminum



No. 6201
1 $\frac{7}{8}$ " dia.



No. 6203
1 $\frac{3}{4}$ " dia.

Cast Iron



No. 6202 3" long, 1 $\frac{7}{8}$ " wide

SMALL PRESSED STEEL ROSETTES

Illustrations are about one-half actual size



2501
7/8" dia.



2502
7/8" dia.



2503
15/16" dia.



2504
7/8" dia.



2505
1" wide



2506
1" wide
1 1/16" dia.



2507
1 1/16" dia.



2508
1 1/8" dia.



2509
1 1/4" dia.



2510
1 1/4" dia.



2511
1" wide



2512
1 3/8" wide
1 1/2" dia.



2513
1 1/2" dia.



2514
1 1/2" dia.



2515
1 5/8" dia.



2516
1 5/8" dia.



2517
1 3/8" wide



2519
1 5/16" dia.



2520
1 5/8" wide



2521
1 1/2" wide



2522
1 1/2" wide



2523
1 3/4" wide



2524
1 3/8" wide



2525
1 5/8" wide



2530
1 3/4" wide

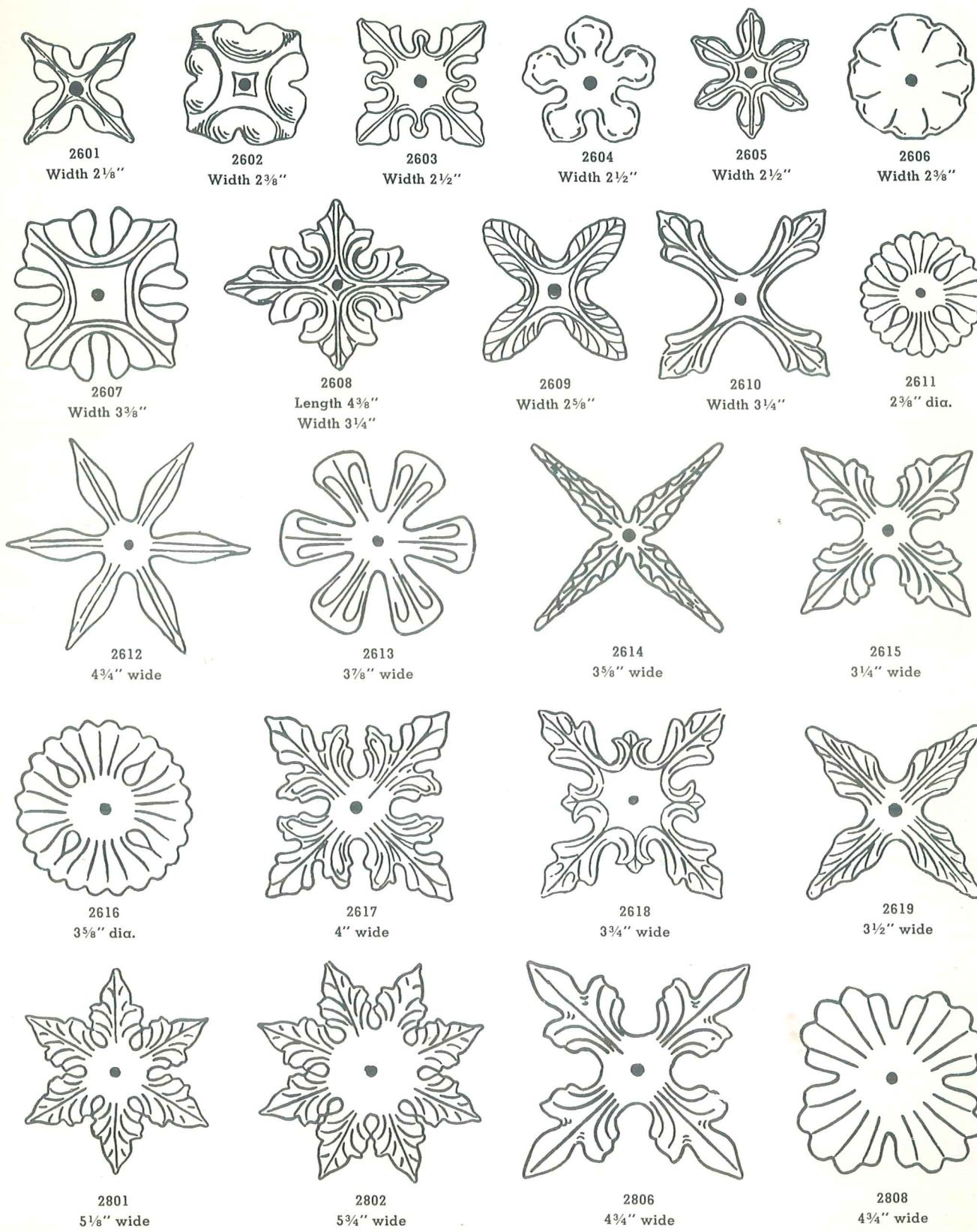
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PRESSED STEEL ROSETTES

109

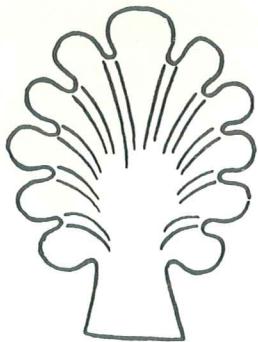
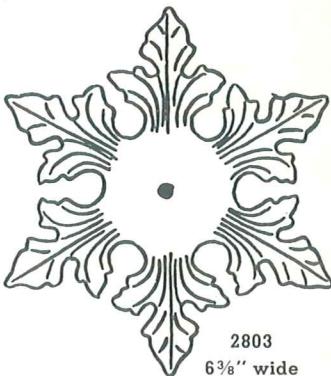
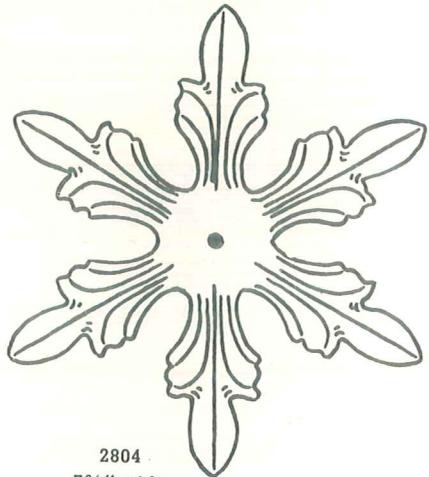
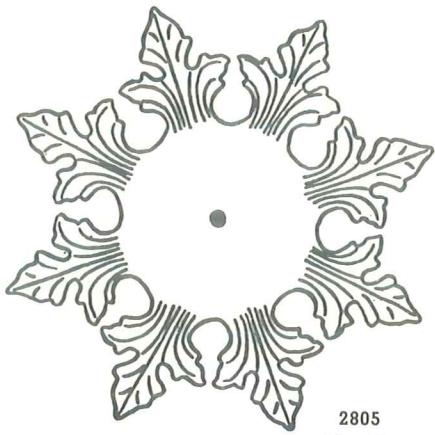
Illustrations are about one-third actual size.



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Pressed Steel Rosettes, Leaves, Candle Pans

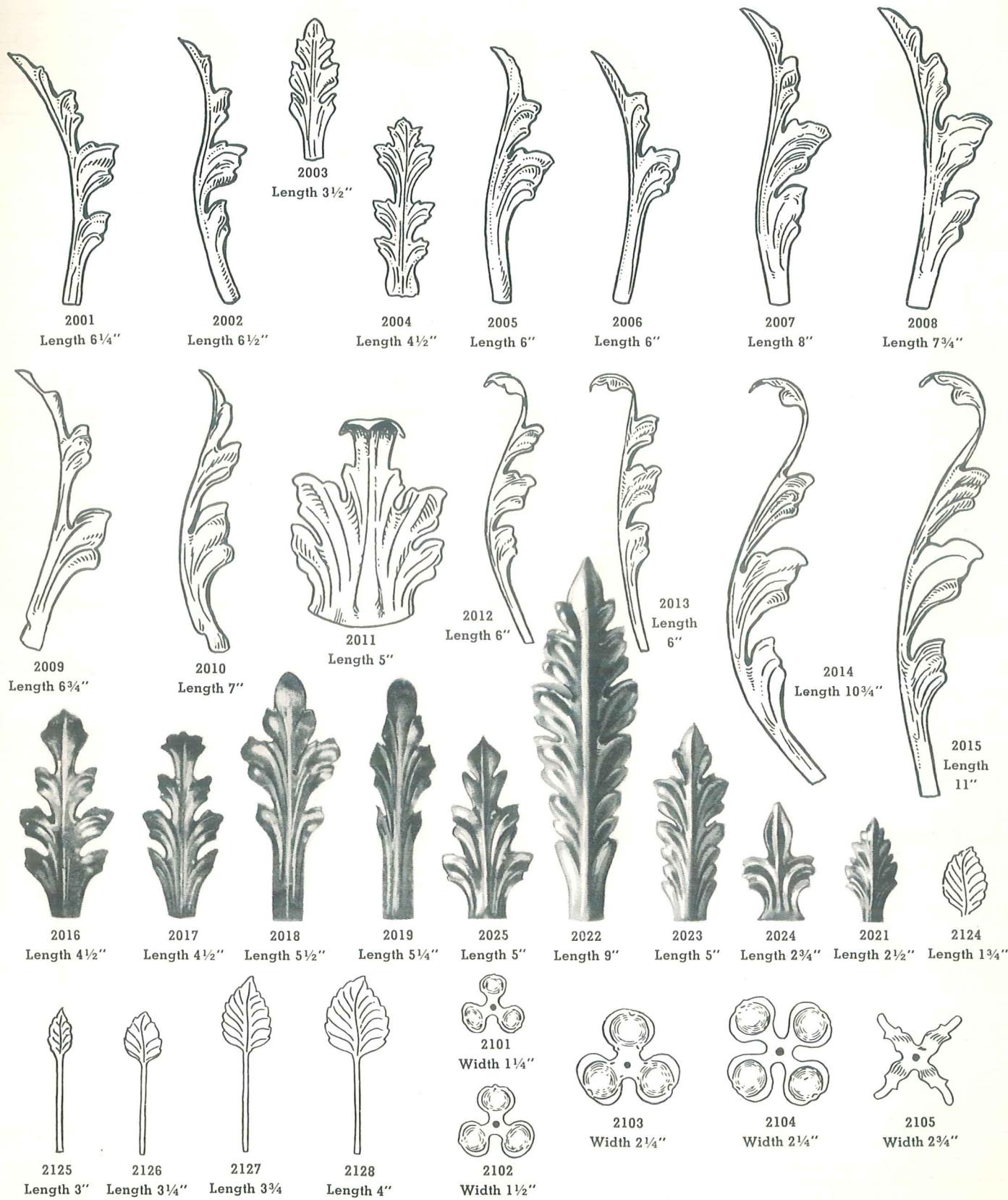
Illustrations are about one-third actual size2809
4 3/4" x 5"2810
6" x 4 1/2"2811
4 3/4" x 5"2803
6 3/8" wide2804
7 3/4" wide2805
8" wide2643
6" dia.2620
4" dia.2625
3 3/8" dia.2629
4" dia.2640
3 3/4" dia.2630
2 3/4" dia.2634
1 1/4" ins. dia.2635
1" ins. dia.2636
7/8" ins. dia.2730
1 1/8" dia.2731
3 1/8" dia.**JULIUS BLUM & CO., INC. • CARLSTADT, N. J.**

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Pressed Steel Acanthus Leaves and Rose Parts

111

Illustrations are about one-third actual size

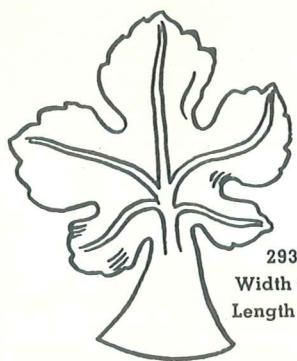


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GRAPE, OAK, MAPLE and WATER LEAVES

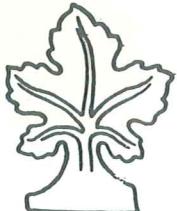
Illustrations are about one-third actual size



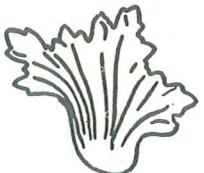
2930
Width 4 $\frac{3}{8}$ "
Length 6 $\frac{3}{8}$ "



2931
Width 3 $\frac{5}{8}$ "
Length 5 $\frac{3}{4}$ "



2932
Width 2 $\frac{1}{2}$ "
Length 3 $\frac{3}{8}$ "



2950
Width 3"
Length 2 $\frac{5}{8}$ "



2952
Width 3"
Length 2 $\frac{5}{8}$ "



2951
Width 3 $\frac{1}{8}$ "
Length 2 $\frac{1}{4}$ "



2962
Width 4"
Length 4"



2960
Width 5 $\frac{3}{8}$ "
Length 7 $\frac{1}{4}$ "



2961
Width 5 $\frac{3}{8}$ "
Length 5"



2942
Width 2 $\frac{1}{2}$ "
Length 6"



2941
Width 1 $\frac{1}{8}$ "
Length 5 $\frac{1}{8}$ "



2981
Length 7 $\frac{1}{4}$ "



2910
Length 10"



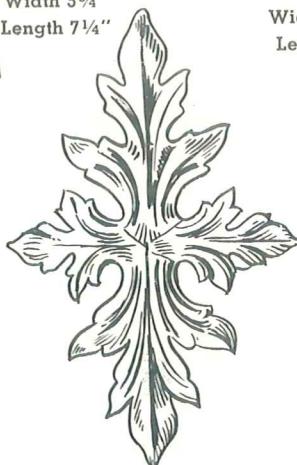
2909
Length 9"



2940
Width 1 $\frac{5}{8}$ "
Length 2 $\frac{3}{4}$ "



2980
Length 4 $\frac{1}{8}$ "



2985
Length 7 $\frac{1}{8}$ "



2984
Length 7 $\frac{1}{2}$ "



2922
Length 7 $\frac{1}{2}$ "



2982
Length 9 $\frac{1}{4}$ "



2908
Length 8"



2907
Length 7"



2906
Length 6"



2905
Length 5"



2904
Length 4"



2903
Length 3"



2920
Length 4"



2921
Length 5 $\frac{5}{8}$ "

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CUPS, HUSKS and SOCKET COVERS

113

Illustrations are about one-third actual size



2701
Width 1 1/2"
Height 1"



2702
Width 1 1/2"
Height 1 3/8"



2704
Width 1 3/8"
Height 1 1/2"



2705
Width 2"
Height 1 7/8"



2706
Width 2 1/4"
Height 1 3/4"



2707
Width 3"
Height 1 1/2"



2708
Width 2 1/4"
Height 2"



2709
Width 1 3/4"
Height 1 3/4"



2710
Width 1 3/4"
Height 2"



2711
Width 2"
Height 1 3/4"



2711-S
Width 1"
Height 1 3/4"



2712
Width 1 3/4"
Height 2 1/4"



2713
Width 2 1/4"
Height 2 1/4"



2714
Width 2 5/8"
Height 1 5/8"



2715
Width 2 1/2"
Height 2 1/2"



2716
Width 2 3/4"
Height 2 1/2"



2717
Width 3 1/4"
Height 3 1/4"



2718
Width 1 1/2"
Height 2 1/2"



2719
Width 2 1/4"
Height 5 1/2"



2720
Width 1 3/4"
Height 3"



2721
Width 2 1/2"
Height 2 1/4"



2725
Width 2 1/4"
Height 3 1/2"



2722
Width 1 1/2"
Height 1 3/4"



2723
Width 1 1/2"
Height 1 3/4"



2726
Width 1 1/4"
Height 2 3/4"



2727
Width 1 1/2"
Height 2"

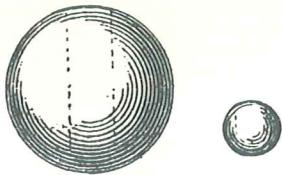
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ORNAMENTAL BALLS AND RIVETS

Balls have drilled holes

ROUND BALLS



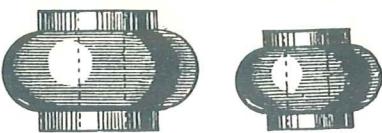
No.	Size
0-1"	dia.
1- $\frac{7}{8}$ "	dia.
2- $\frac{3}{4}$ "	dia.
3- $\frac{5}{8}$ "	dia.
4- $\frac{1}{2}$ "	dia.
5- $\frac{3}{8}$ "	dia.
41- $\frac{5}{16}$ "	dia.
42- $\frac{1}{4}$ "	dia.

OVAL BALLS



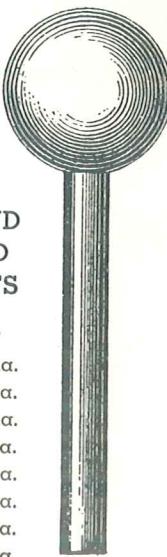
No.	Size
111-1"	x $\frac{5}{8}$ "
110- $\frac{7}{8}$ "	x $\frac{3}{16}$ "
109- $\frac{3}{4}$ "	x $\frac{7}{16}$ "
108- $\frac{5}{8}$ "	x $\frac{5}{16}$ "
107- $\frac{1}{2}$ "	x $\frac{5}{16}$ "
106- $\frac{3}{8}$ "	x $\frac{1}{4}$ "

OVAL BALLS WITH SHOULDER



No.	Size
70-1"	x $\frac{5}{8}$ "
71- $\frac{3}{4}$ "	x $\frac{1}{2}$ "

ROUND



No.	Size
0-1"	dia.
1- $\frac{7}{8}$ "	dia.
2- $\frac{3}{4}$ "	dia.
3- $\frac{5}{8}$ "	dia.
4- $\frac{1}{2}$ "	dia.
5- $\frac{3}{8}$ "	dia.
41- $\frac{5}{16}$ "	dia.
42- $\frac{1}{4}$ "	dia.

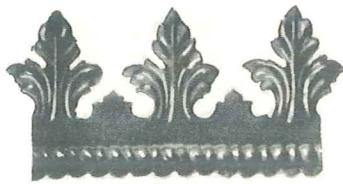
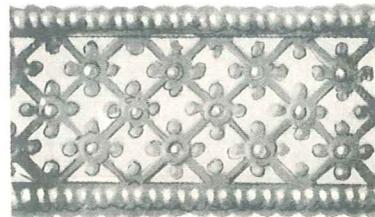
DROP FORGED PICKET

No. 54
3/4" SQUARE SHANK

PRESSED STEEL MOULDINGS

10 FOOT LENGTHS

Illustrations are about one-fourth actual size

No. 2852
2 $\frac{3}{4}$ " wideNo. 2855
3 $\frac{1}{8}$ " wideNo. 2853
3 $\frac{1}{2}$ " wideNo. 2856
4 $\frac{1}{4}$ " wideNo. 2854
4" wideNo. 2858
4 $\frac{1}{2}$ " wide**JULIUS BLUM & CO., INC. • CARLSTADT, N. J.**

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METAL WORKING MACHINERY

115

We are recognized distributors for many nationally known manufacturers of machinery and metal fabricating equipment.

Through over 45 years of close contact with the metal working trade we have acquired a thorough knowledge of the requirements of various types of shops. We are in a position to recommend whatever equipment is best suited for each customer's needs.

The following is a partial list of machinery which we handle and much of which we carry in stock.

Air Compressors	Crayons, Marking	Punches and Shears
Angle Shears	Drills	Punch Presses
Anvils	Forges	Rivet Heaters
Arc Fit	Grinders	Sanders, Portable
Band Saws	Grinding Wheels	Saws
Bar Cutters	Hack Saws	Screw Drivers, Electric
Bar Twisters	Hammers, Electric	Shears
Benders	Hammers, Power	Stock Stand
Bending Brakes	Hoists, Electric	Tappers
Bending Rolls	Hole Saws	Threading Machines
Blowers	Hydraulic Presses	Threading and Cutting Oi
Buffers	Notchers	Trolleys
Clamps, Lifting	Punches and Dies	Vises
Clamps, Welding	Punches	Welders
Crane Assemblies		

Please write for our Catalog "Metal Working Machinery."

PUNCHES AND DIES

A complete line of punches and dies is carried in stock to fit nearly every type of punching machine, domestic or imported.

Stock items include punches and dies for round, square, rectangular and oval holes in a wide range

INSTRUCTIONS FOR ORDERING

The following data are required to fill punch and die orders properly

ALL PUNCHES AND DIES:

Exact size and shape of hole to
be punched
Quantity for each size

HEADED PUNCHES:

Diameter of Head
Diameter of Body
Overall length
(not including tip)

Straight Shank Punches:

Diameter of Shank
Overall length
(not including tip)

REGULAR ROUND DIES

Outside Diameter
Overall height

OTHER ROUND DIES

- In addition to diameter and height, specify whichever applies:
- Flat face
- Off center hole
- Bevel top
- Bevel top-flat face
- Bevel top-off center

PLEASE STATE MEASUREMENTS ACCURATELY

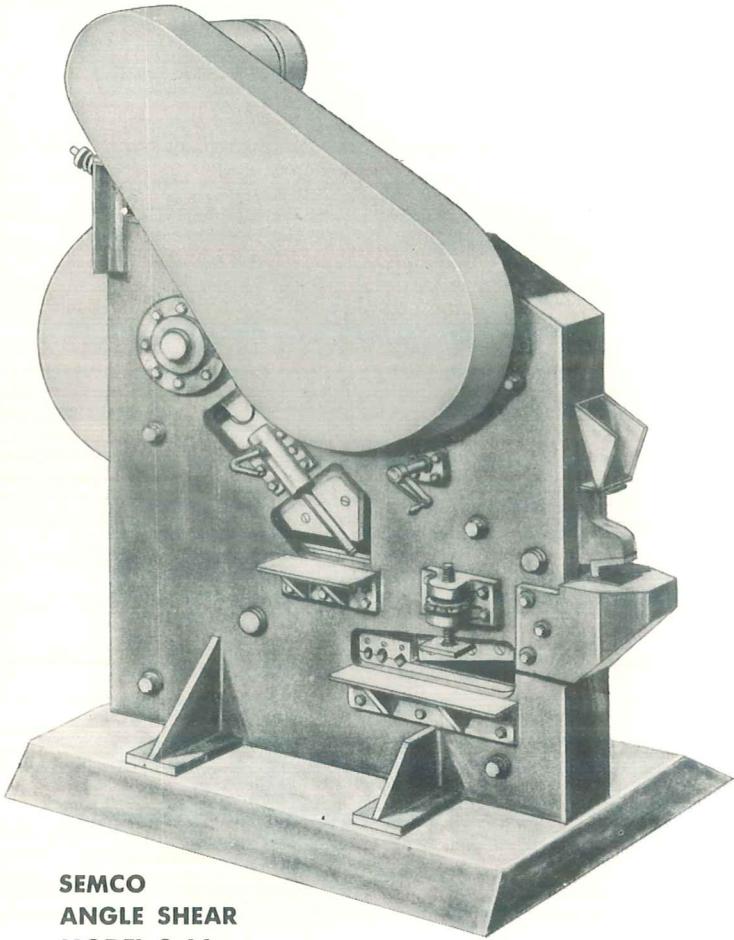
Also state, if possible, make and model of punching machine. On repeat orders, it will then suffice to state quantity and size of punches and dies and to mention the machine.

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116 SEMCO STRUCTURAL ANGLE SHEAR

Designed and built especially for Julius Blum & Co., Inc.



**SEMCO
ANGLE SHEAR
MODEL S-66**

The Semco Structural Punch and Semco Angle Shear now make it economical to use single purpose machines. Each can be placed in the most convenient spot and both operated independently. They can replace the double end combination machine which must be accessible from all sides and often creates space or handling problems.

The cost of the two machines is less than that of a combination unit of comparable capacity.

This machine is designed to handle the majority of angle and bar cutting requirements of structural and miscellaneous iron shops.

Uncomplicated design and quality workmanship make this machine reliable and trouble free, though low in cost.

CAPACITY

WITH STANDARD EQUIPMENT

Cuts Angles (square cuts only)	up to 6" x 6" x $\frac{5}{8}$ "
Cuts Flats.....	{ up to 10" x $\frac{1}{2}$ " up to 12" x $\frac{3}{8}$ "
Cuts Rounds.....	up to $1\frac{1}{4}$ "
Cuts Squares.....	up to $1\frac{1}{4}$ "

WITH SPECIAL BLADES

Cuts Angles (square cuts only)	up to 7" x 4" x $\frac{1}{2}$ "
Cuts Rounds.....	up to 2"
Cuts Squares.....	up to 2"

WITH BUILT-IN COPER (optional equipment)

Copes plates or flanges of structurals up to $\frac{3}{8}$ "	
Notches Angles, in one stroke	up to 2" x 2" x $\frac{3}{8}$ "
Notches Angles, in three strokes	up to 4" x 4" x $\frac{3}{8}$ "
Size of coper: 2 $\frac{1}{2}$ " wide x 3 $\frac{3}{4}$ " deep.	

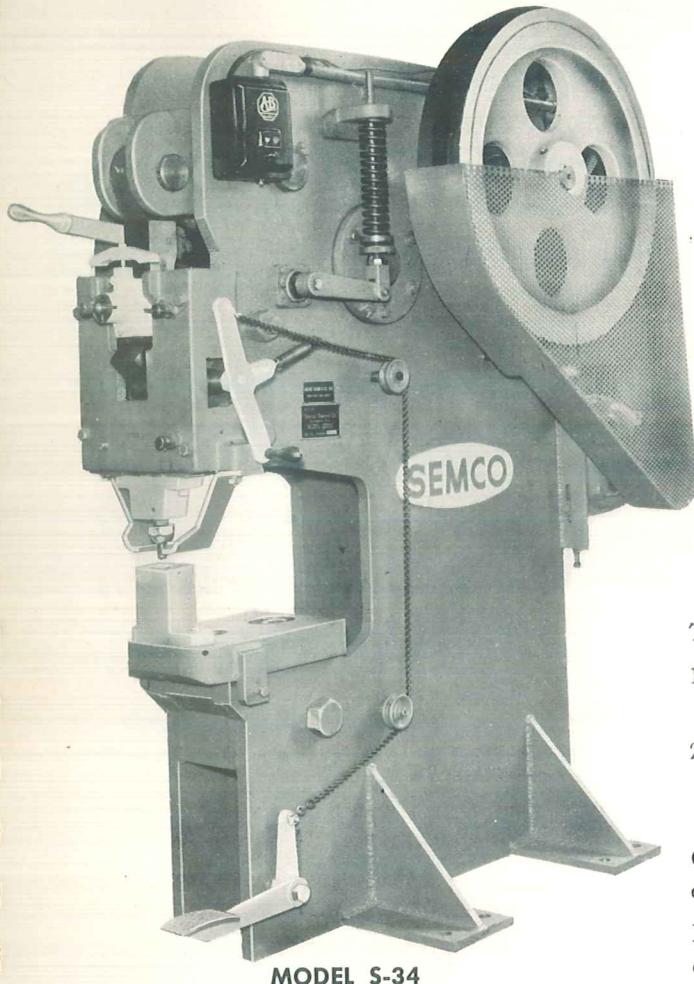
DIMENSIONS

Length over all, without coper.....	64"
with coper.....	74"
Width over all	29 $\frac{1}{2}$ "
Height, with motor, approx.....	85"
Size of Base.....	52 $\frac{1}{2}$ " x 29 $\frac{1}{2}$ "
Approx. Shipping Weight.....	8000 lbs.
Motor required.....	5 HP, 1800 RPM

SEMCO STRUCTURAL PUNCHING MACHINE 117

Designed and built especially for Julius Blum & Co., Inc.

A punching machine designed for the needs of the structural steel fabricator.



MODEL S-34

SPECIFICATIONS

Capacity . . .	$\frac{7}{8}$ " through $\frac{3}{4}$ " (in mild steel)	Motor required . . . 5HP 1800 RPM
	$\frac{1\frac{1}{8}}{2}$ " through $\frac{5}{8}$ "	Floor space required . . . 34" x 72"
Depth of Throat . . .	20"	Height overall 81"
Height of Throat . . .	14"	Net Weight, with motor 6,480 lbs.
Strokes per minute . . .	30	Approx. Shipping Weight 6,800 lbs.

Punches webs and flanges of:

- Standard I-Beams from 4" to 24"
- H-COLUMNS from 4" to 12"
- Wide Flange Beams with flanges up to 12"

Unbreakable Steel Plate Construction

- Full Floating Punch
- "Structural" Throat and Die Block

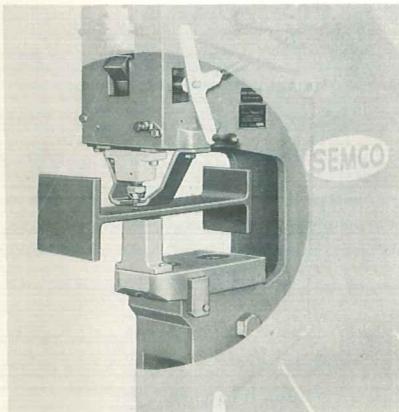
Floating Punch

This feature permits centering punch in either of two ways:

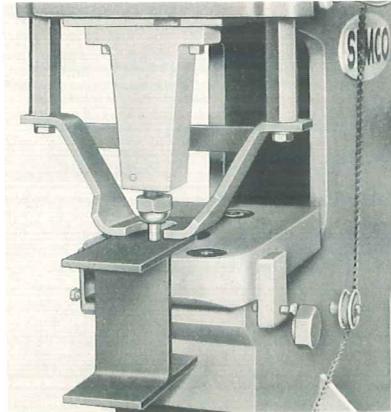
1. By Hand Lever: Punch is lowered and held down to the center mark until it is engaged.
2. By Floating: Punch is set to idle up and down and adjusted to touch the work lightly on each stroke, leaving the operator's hands free to center the work under the punch.

Once the work is centered, the punch is engaged by foot pedal or hand lever.

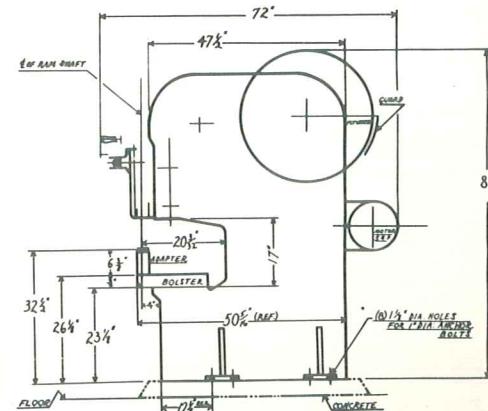
Punches and Dies are of standard type available from stock in a complete range of shapes and sizes.



High Die Block for punching Webs and for Flanges of 12" and larger beams and columns.



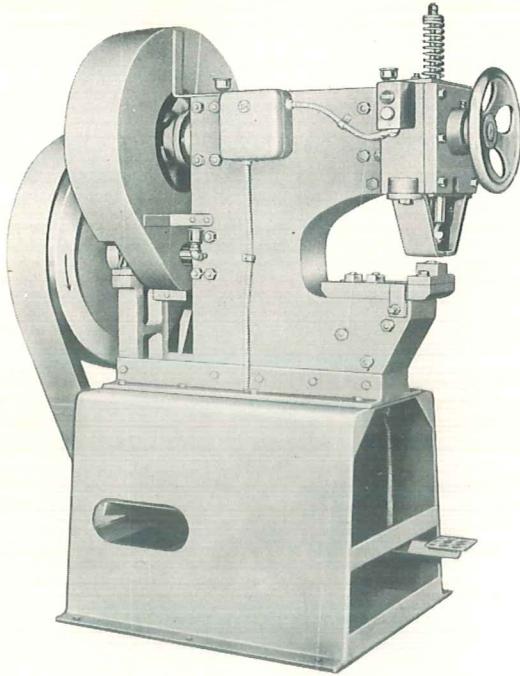
Low Die Block for punching Flanges of beams down to 4".



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SINGLE END PUNCHING MACHINES

Designed and Built Especially for Julius Blum & Co., Inc.



FEATURES

FRAME: Unbreakable steel plate construction.

CLUTCH: Foot operated, remains engaged until stroke is completed.

PUNCH can be lowered by hand wheel for accurate centering.

DIE BLOCK: Overhanging type, suitable for punching web and flanges of channels and I beams. With eccentric dies, angles can be punched close to the inside corner.

STEEL BASE is standard equipment, giving the machine the proper working height.

PUNCHES AND DIES are of standard type, available in a wide range of shapes and sizes.

OPTIONAL EQUIPMENT: Triple Punching Attachment makes available any one of three punch sizes instantly without tool change. It handles round punches up to 9/16".

Twin Punching Attachment similar in construction to triple punching attachment, accommodates two punches and dies in round sizes up to 1" and squares up to 25/32".

Angle Shearing Attachment cuts angles up to 2" x 2" x 1/4".

Mitre Notching Attachment notches angles up to 2" x 2" x 1/4".

Bar Cutting Attachment cuts flats up to 3" x 3/8".

We Carry a complete stock of Punches and Dies

THE JULIUS BLUM SINGLE END PUNCH is suited for light fabricating, such as railing, stair and fire escape work. It is suitable for punching web and flanges of small beams and channels, also for angles, flat bars and plate.

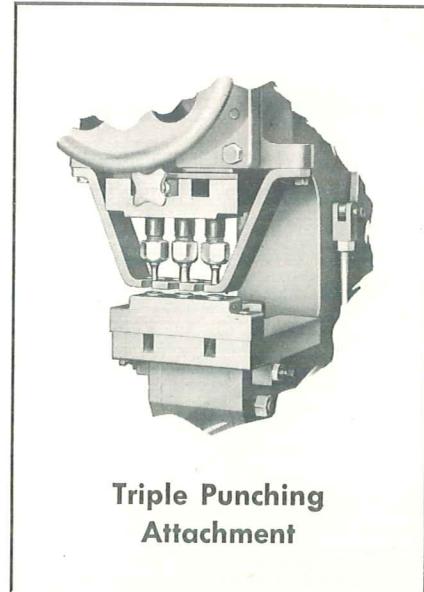
SPECIFICATIONS

Capacity (in soft steel).....	9/16" round thru 1/2"
With single or twin punch attachment only	{ 25/32" round thru 3/8" 17/32" square thru 3/8" 21/32" square thru 5/16"
Strokes per minute.....	60
Motor	2 HP 1800 RPM

MODEL P9

MODEL P18

Depth of throat.....	12"	18"
Size of base.....	22" x 30"	22" x 36"
Size over all.....	45" x 27" x 60" high	51" x 27" x 60" high
Net Weight, with motor.....	1500 lbs.	1700 lbs.
Approx. shipping weight.....	1600 lbs.	1800 lbs.

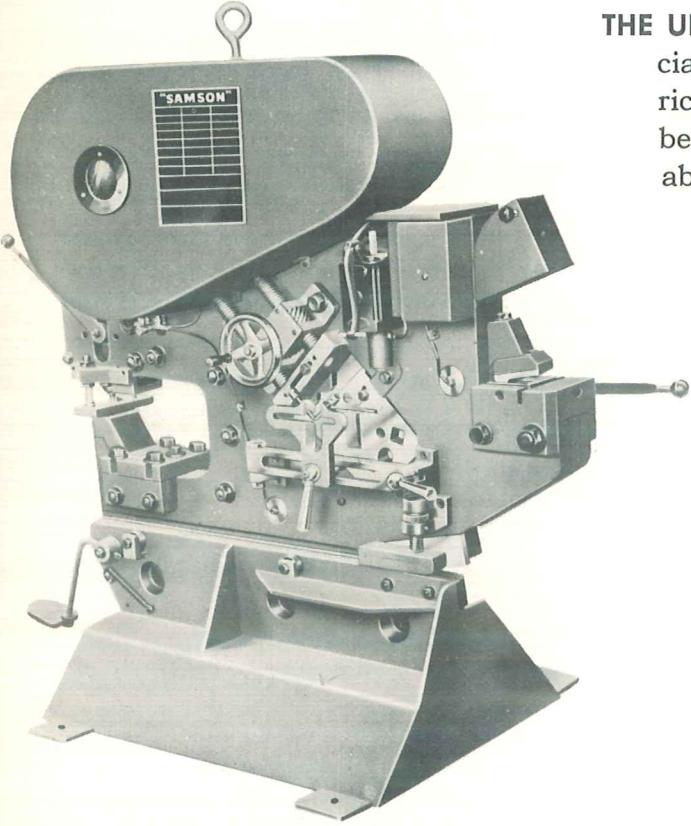


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CARDIFF No. CI UNIVERSAL FABRICATOR

FORMERLY KNOWN AS "SAMSON"



THE UNIVERSAL FABRICATOR has been designed especially to do a good all-around job in the light fabricating shop. Through quantity production it has become possible to maintain top quality at a reasonable price.

FEATURES

FRAME: Unbreakable Steel Plate Construction.

CLUTCH: Twin Clutches permit separate operation of Punch End and Shear End. Punch is engaged either by hand lever or foot pedal.

PUNCH: Can be lowered by hand lever for accurate centering.

DIE BLOCK: Overhanging type, suitable for punching webs and flanges of beams and channels.

COPER: Built in on shear end, suitable for both V-notching and square coping.

GUARDS: A complete set of sheet metal guards for gears, flywheel, belts and coper is standard equipment.

CENTRAL OILING SYSTEM: Permits complete lubrication of the machine by one stroke of the pump.

PUNCHES AND DIES: Are of standard type, available from stock in a wide range of shapes and sizes.

SPECIFICATIONS

Punch capacity.....	{ $\frac{7}{8}$ " round through $\frac{3}{8}$ " $\frac{11}{16}$ " round through $\frac{7}{16}$ "
Cuts Sheet or Plate.....	up to $\frac{3}{8}$ "
" Flat Bars	up to $\frac{1}{2}$ "
" Rounds	up to $1\frac{3}{16}$ "
" Squares	up to 1"
" Angles and Tees at 90°	up to 3" x 3" x $\frac{1}{4}$ "
" Angles and Tees at 45°	up to 2" x 2" x $\frac{1}{4}$ "
Copes and notches.....	$\frac{1}{4}$ "
Depth of throat.....	12"
Length of knives.....	8"
Strokes per minute.....	35
Motor .....	.2 HP 1800 RPM
Net Weight (less motor).....	1900 lbs.
Shipping Weight (approx.).....	2250 lbs.

Bulletin showing complete details furnished on request

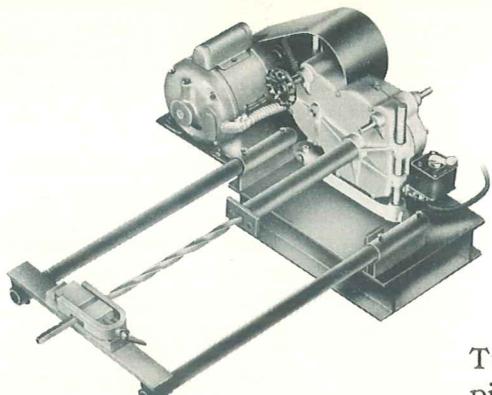
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JULIUS BLUM BAR TWISTING MACHINE

Model N-58

Designed and built especially for Julius Blum & Co., Inc.



Model N-58

Twists bars up to $\frac{5}{8}$ " square quickly and easily.

SPECIFICATIONS:

Motor: $\frac{1}{2}$ HP, for 110 V 60 cy 1 ph A.C.

Switch: Drum Type—Reversing

Bushings furnished for $\frac{1}{2}$ " sq. and $\frac{5}{8}$ " sq. bars.

Size of base: 12" x 18"

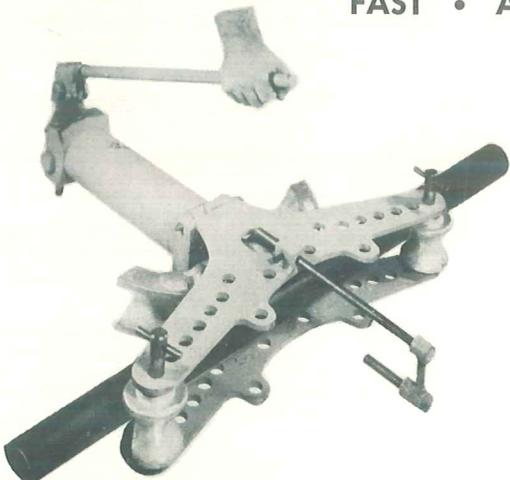
Size over all: 37" x 28" x 18" high

Weight: 170 lbs.

Twists made with this machine are of uniform length and pitch. Bars remain straight, do not require straightening after twist is completed.

TAL PORTABLE HYDRAULIC PIPE BENDER

FAST • ACCURATE • POWERFUL



Model 225 PH

Model No.	Standard Range	Range with extra equipment	Shipping weight
225 PH	1 $\frac{1}{4}$ " to 2"	3/8" to 2"	137 lbs.
325 PH	1 $\frac{1}{4}$ " to 3"	3/8" to 3"	220 lbs.

These models carried in stock for immediate shipment. Other Tal Benders available for pipe sizes up to 8".

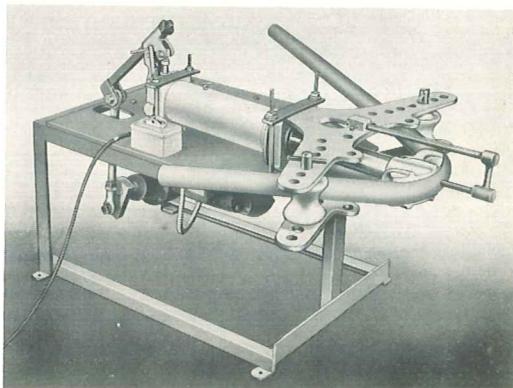
Regular Equipment includes: 90° Pipe formers for standard range, duplicate bend indicator, push-out pin, carrying case.

Optional Equipment: 90° Formers for extra range, 180° bending attachment and radius formers, straightening and bar bending tools, long radius pipe formers.

MOTOR DRIVE FOR TAL BENDER

Designed and built especially for
Julius Blum & Co., Inc.

Either Model 225 PH or 325 PH can be mounted on the motor drive unit quickly and easily, or detached at any time for manual operation in the field.



The unit operates at 216 strokes per minute, powered by a $\frac{3}{4}$ HP gear motor for 110/220 V—1ph—60 cy A.C.

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The ARC-FIT TUBE AND PIPE NOTCHER 121

Tube and Pipe joints without fittings are fabricated neatly and economically with the Arc-Fit. The process requires seconds instead of minutes. The pipe is not deformed in any way, and no further finishing is required before welding or brazing. The Arc-Fit has proved indispensable in the fabrication of pipe railings.

OPERATION

The Arc-Fit notches one side of the tube to match the radius of the piece to which it will be joined. The tube is then turned over and the operation repeated on the opposite side. The result is a perfect Tee joint suitable for welding or brazing.

THE ARC-FIT UNIT

The Arc-Fit Unit consists of a housing and a set of dies. One standard housing will accommodate right angle dies for any size tube up to $2\frac{3}{8}$ " O.D. or pipe up to 2" I.P.S. Special housings are furnished for larger tubes and for special angle dies.

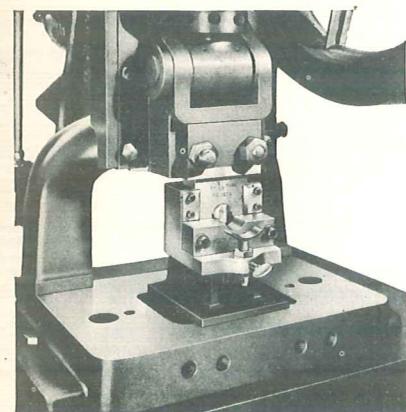
Standard Right Angle Units are operated by means of the Arc-Fit Special Hand Press, or by any suitable power punch press, press brake or hydraulic press. Angular Notch Units or other Arc-Fit tools requiring special housings must be operated by a power press.

SPECIAL UNITS:

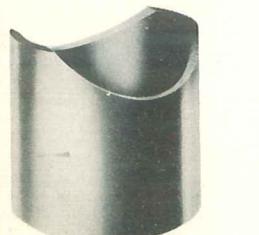
Twin notch unit for right angle joints notches both sides of a tube or pipe simultaneously, cutting production time in half.

V-notching Dies for mitre notching of angles can be supplied in various sizes.

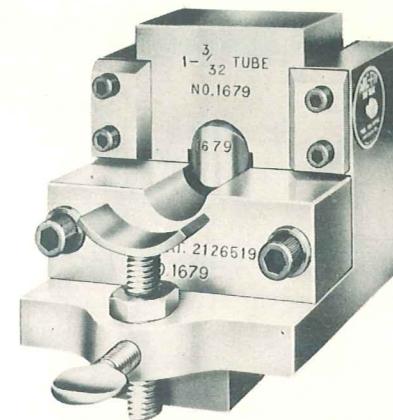
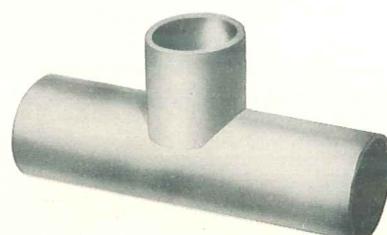
Dies for notching slots or openings of various shapes and sizes in tubing or flat material supplied to customer's specifications.



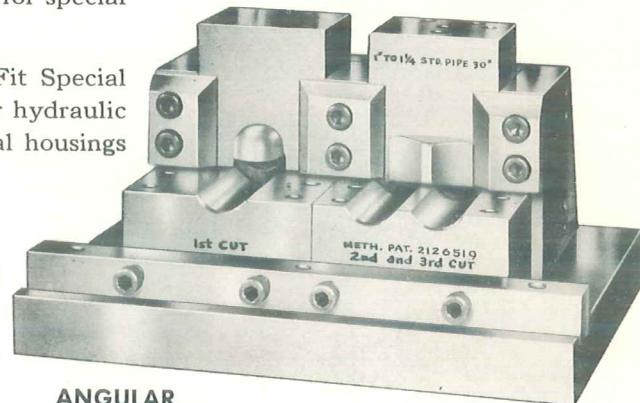
ARC-FIT IN POWER PUNCH PRESS



RIGHT ANGLE NOTCH FOR TEE JOINT



RIGHT ANGLE NOTCH UNIT



ANGULAR NOTCH UNIT

STOCK SIZES

The following equipment carried in stock for immediate shipment:

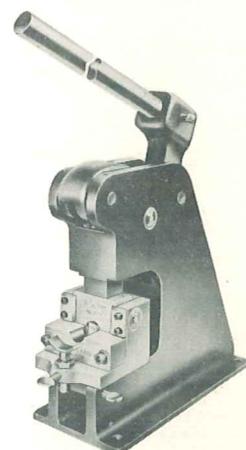
ARC-FIT RIGHT ANGLE UNITS FOR $\frac{3}{4}$ ", 1", $1\frac{1}{4}$ ", $1\frac{1}{2}$ ", 2" and $2\frac{1}{2}$ " standard pipe and for 1" O.D. Tubing, No. 16 to No. 18 gauge.

ARC-FIT HAND PRESSES AND PUNCH PRESS ADAPTERS

V-NOTCHING UNITS

BEVEL JOINT UNITS for 1 $\frac{1}{4}$ " and 1 $\frac{1}{2}$ " pipe stair railings (35° bevel).

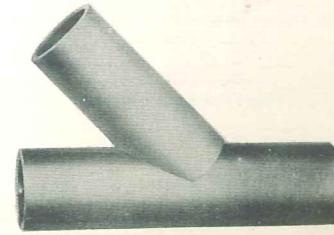
All other Arc-Fit equipment promptly made to order.



ARC-FIT IN HAND PRESS



NOTCH FOR ANGLE JOINT



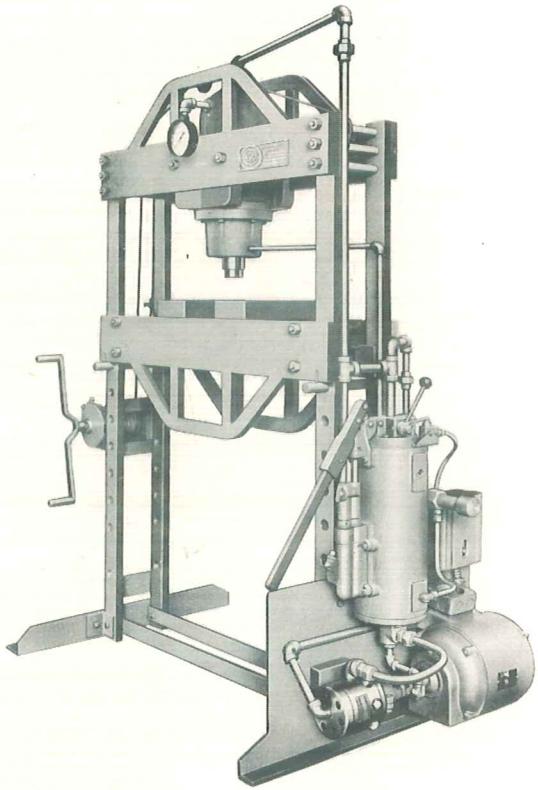
JULIUS BLUM MOTOR DRIVEN HYDRAULIC PRESS

FOR BENDING — FORMING — STRAIGHTENING

For fabricating Anchor Bolts — Brackets — Beam Hangers — Pipe Clamps.

For Bending or Straightening Bars — Channels — Beams — Pipe.

Designed especially for the requirements of structural and miscellaneous iron shops.



75 TON POWER RETURN LONG STROKE PRESS

This unit is especially adapted for structural and miscellaneous iron shops. It incorporates many features not encountered in punch presses, press brakes or ordinary hydraulic presses. It is more versatile and does more jobs faster and at less cost than other types of equipment.

SPECIFICATIONS

Model W-75—Power Return Hydraulic Press

Tonnage Capacity	75	Space between bed plates	9 1/4"
Ram Diameter	2 15/16"	Height overall	84"
Cylinder Bore	6"	Width overall	75"
Piston Diameter	6"	Width between uprights R to L	42"
Ram Travel	11"	Motor 7 1/2 H.P.—1800 RPM.	
Bed Travel	35"	Speed of Ram..1" per 2.6 sec.	
Bed Supporting Pins, dia. (Alloy Steel).....	1 1/4"		
Opening between uprights at sides	6 5/8"		

Hand Pump not furnished on motor driven presses with power return of ram.

FEATURES

ADJUSTABLE RAM PRESSURE

By-pass valve can be set for any desired pressure up to capacity of machine. Actual tonnage delivered is shown on pressure gauge. Operation may be started at minimum pressure and tonnage built up gradually until it is sufficient for the work being done. Once it is set, the same pressure is applied on every stroke. At the bottom of the stroke the pressure will remain the same until the direction of the ram is reversed by the operator. This permits the use of light, inexpensive dies for lighter work. Many dies can be improvised and built up from scrap pieces of steel.

QUICK ACTION

Ram travel is 1" in 2.6 seconds. The stroke of the ram can be stopped and reversed instantly at any point of its traverse, either up or down. This eliminates waste motion as the ram needs to be raised only enough to clear the work. If work is small, a number of pieces can be inserted and formed simultaneously.

Higher speeds of ram travel can be furnished on special order.

INCHING MOTION OF RAM

Sensitive fingertip control of ram permits an inching motion which is useful for straightening and certain bending operations. The motion of the ram may be stopped at any point and downward motion resumed instantly when desired.

LONG STROKE

The stroke of the ram is 11" and pressure is uniform and constant throughout its travel. Therefore there is no need for exact adjustment of the distance between upper and lower die. Regardless of thickness of metal being formed, the dies will seat properly. While the bed can be raised and lowered by means of a winch, it is often unnecessary to change the setting for different operations.

OPEN FRAME

Does not interfere with long work pieces or reverse bends.

EASE OF MOUNTING DIES

Standard Ram Caps can be supplied for attaching upper Dies to Ram. The Die is welded to the ram cap, which slides over the end of ram and is fastened by a set screw fitting into a suitable groove.

The lower die merely rests on the die bed. It may be left loose so as to center itself under the upper die; or it may be clamped in place.

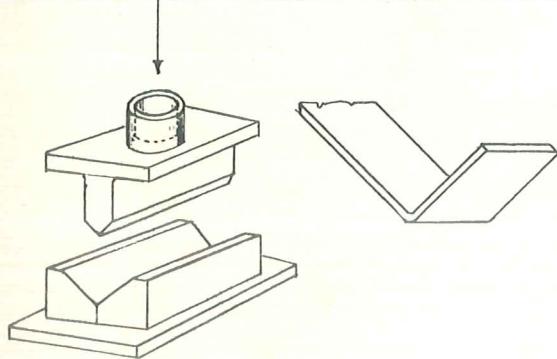
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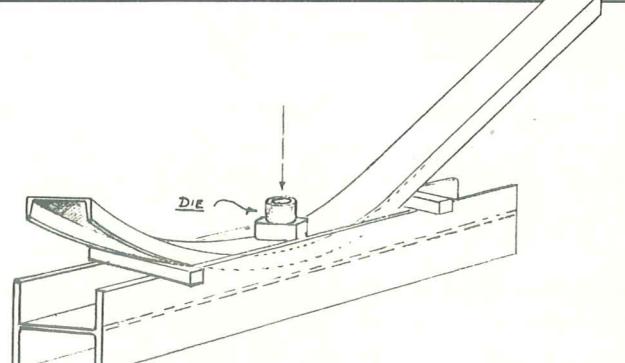
JULIUS BLUM MOTOR DRIVEN HYDRAULIC PRESS

TYPICAL DIE SETUPS FOR A FEW OF THE JOBS WHICH CAN
BE DONE ON THE BLUM HYDRAULIC PRESS

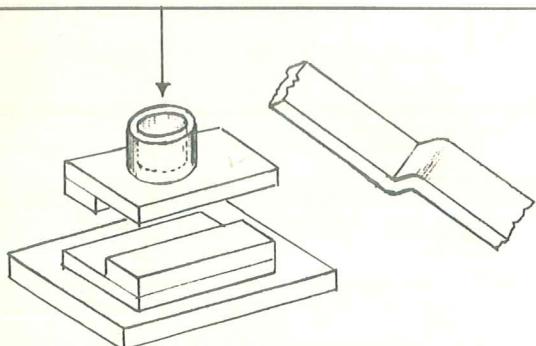
These dies can be built in any shop from random pieces of mild steel.



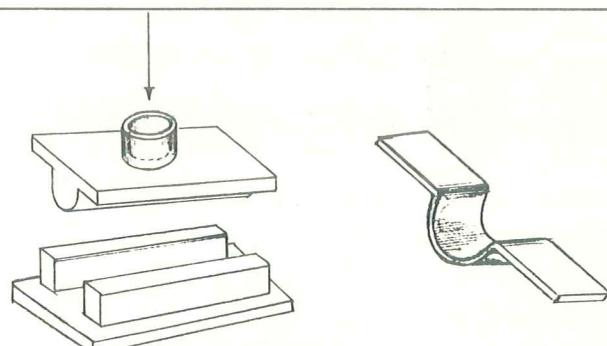
Angle Bends on Bars or Plate



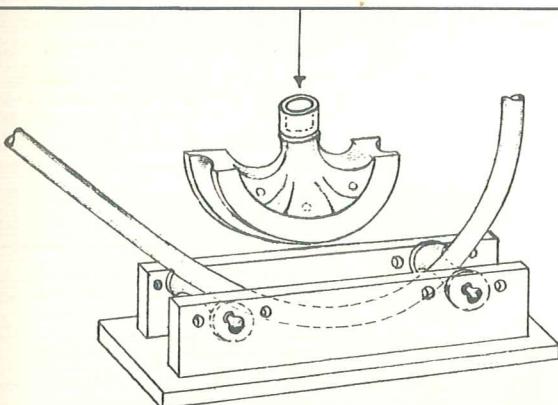
Bending and Straightening Beams
and Channels



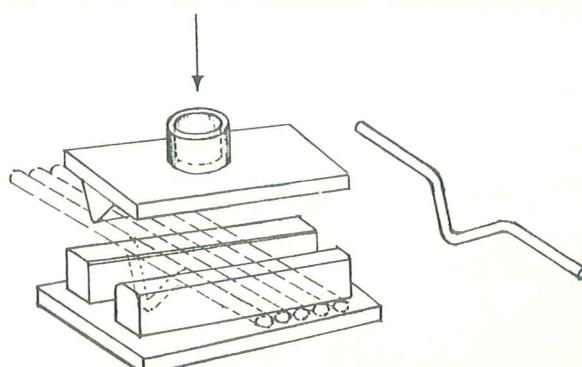
Offset Bends



Forming Pipe Clamps



Bending Pipe (using stock pipe formers as supplied for hand power pipe benders)



Forming Anchors

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PLASTIC TUBING • SHEET • ROD SHAPES • PIPE • FITTINGS

TENITE II SOLID ROD

Seven stock sizes
 $\frac{1}{4}$ " dia. to $\frac{3}{4}$ " dia.

POLYSTYRENE TUBING

Nine stock sizes
 $\frac{1}{4}$ " O.D. to 2" O.D.

POLYSTYRENE ROD

Eighteen stock sizes
 $\frac{1}{8}$ " dia. to 2" dia.

POLYSTYRENE SHEET

Twelve stock thicknesses
.031" to 1.00"

TULOX TT TUBING

Forty-one stock sizes
 $\frac{1}{8}$ " O.D. to 2" O.D.

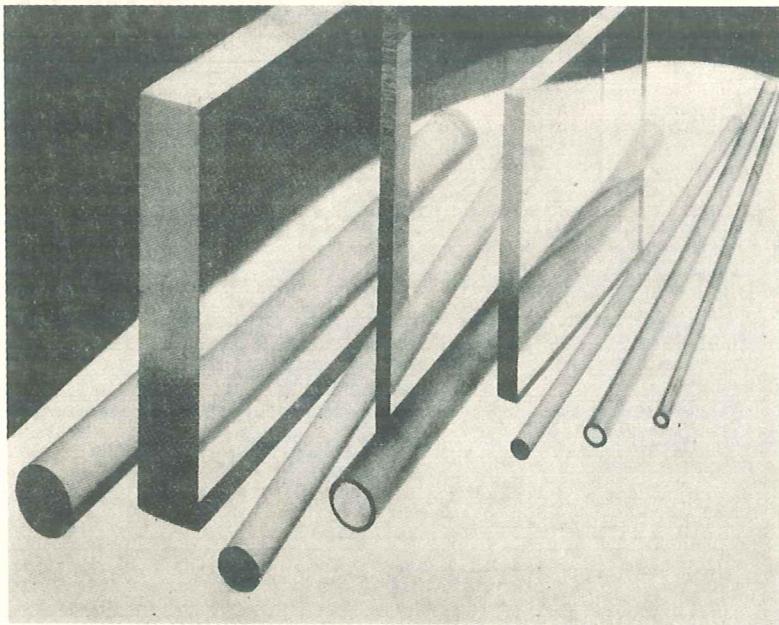
METHACRYLATE ROD

Eight stock sizes
 $\frac{1}{4}$ " to $1\frac{3}{4}$ " dia.

TYGON TUBING

Forty-five stock sizes
 $\frac{1}{8}$ " I.D. to 2" I.D.

TYGON SHEETING EXTRUDED SHAPES TULOX PLASTIC CONTAINERS



Catalog showing complete range of sizes and price schedules furnished on request.

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